

Murata Power Solutions' latest

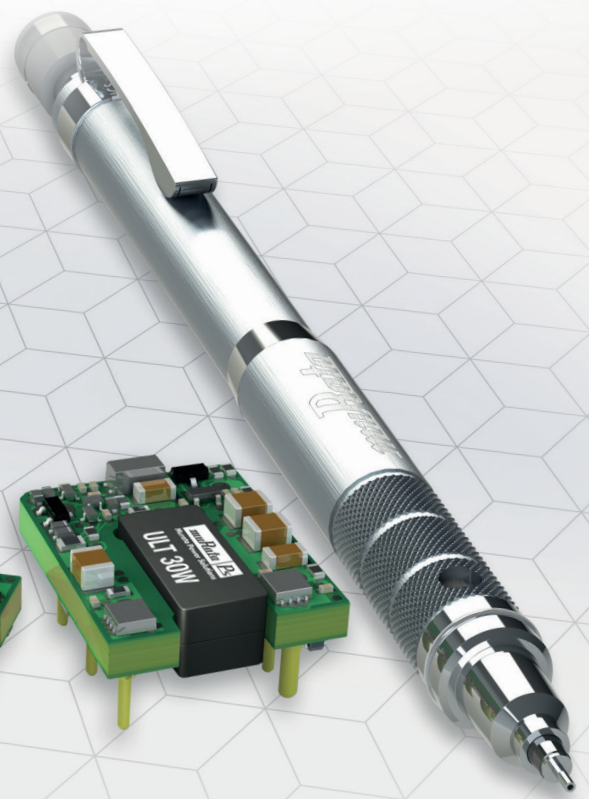
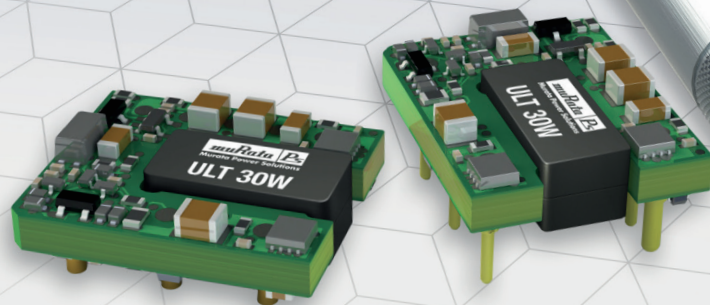
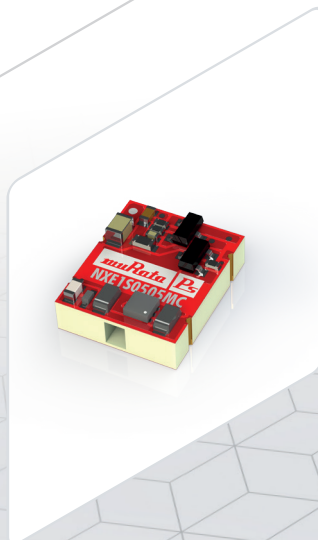
DC-DC Converters

Isolated

Single, dual & triple output: <1W to 450W

Non-isolated

Point-of-Load: 1A to 16A



DC-DC Products



Powering innovation

Your preferred power partner, delivering innovative solutions you can rely on, again & again

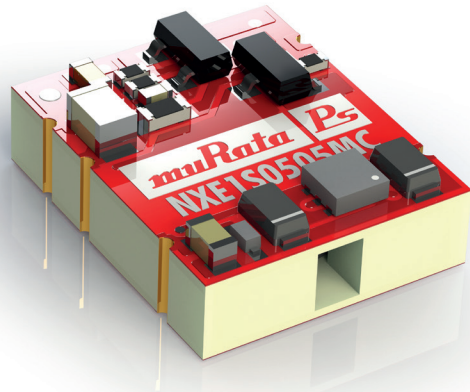


About Murata Power Solutions

The number one supplier of board-mount power and among the top suppliers of overall power electronics.

From 0.25W isolated converters to 2100W front-end power supplies, along with filtering and isolation solutions, our current offering exceeds 3,500 standard models developed in our design and manufacturing centers located in the US, Canada, UK, Japan and China.

Murata's worldwide network of technical sales managers, FAEs, customer support and industry-leading distributors, reliably support the power requirements of local and global manufacturers of telecommunications equipment, data management systems, industrial controls, transportation electronics, energy systems, and more.



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This catalogue contains typical specifications. Please consult the product data sheet for complete specifications.

Our DC-DC Converters

This catalogue provides specifications for our entire offering of:

Point-of-Load converters

- DOSA compatible designs
- OKAMI, the new breed of DC-DCs

Isolated DC to DC converter products

- Single, dual, and triple output
- Power from 0.25 to 450 Watts; currents from 0.02 to 50 Amps

Bricks

- DOSA compliant 1/32 to 1/2
- 1 x 1" and 2 x 2" encapsulated

1

Find

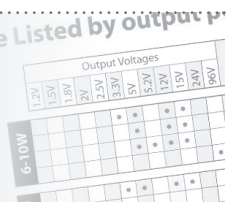
your output voltage from the product data tables



2

Refer

to quick selection guides for Output power (isolated) Output current (PoLs)



3

Choose

the ideal product series for your application



4

Visit

www.power-murata.com for data sheets and complete specifications



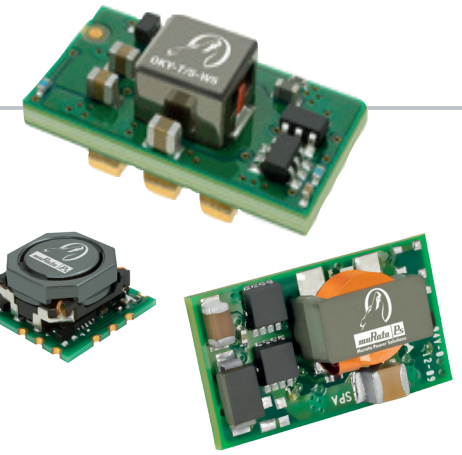
Point-of-Load

Non-isolated DC-DC converter series

Murata Power Solutions offers more non-isolated, point-of-load (PoL) DC-DCs, in standard packages and pinouts, than any other company.

Our PoL output voltages range from 0.75 to 6V at current levels from 2 to 50A. Input voltages are centered around traditional 3, 5 and 12V levels, with some devices operating from 7.5 to 40V. Standard packages include SMT and SIP models.

The newest Okami SMT and SIP models offer user programmable outputs (0.6-15.5V) while operating from wide-range inputs (2.4-5.5V, 2.9-14V, 4.5-14V, 6-14V, 8.3-14V, 9-32V, 16-40V, or 19-40V). For many applications, they can be genuine “one-size-fits-all” solutions.



PoLs may be powered from AC to DC converters and DC-DC regulators, among other design options. Also, many designers find them a quick, cost-effective solution when isolation is not required and in-house designs are too expensive and time consuming.

User programmable output voltages

Part Number* Note: Root part numbers may be shown. Please refer to datasheets for available options.	Output Characteristics			Input Voltage			Efficiency	Package				Package Dimensions						Datasheet Available at www.murata-ps.com		
	Rated Output Current	Rated Output Voltage	Total Output Power	Nom.	Min.	Max.		SM	TH	DIP	SIP	Inches			mm					
												L	W	H	L	W	H			
OKL-T/1-W12x-C*	1A	0.9-5.5V	5W	12V	2.9V	14V	90%	✓				0.49	0.18	0.49	12.4	4.57	12.4	OKL-T/1-W12		
OKR-T/1.5-W12-C	1.5A	0.591-6V	7.5W		4.5V		93%			✓			0.41	0.24	0.40	10.4	6.1	10.16	OKR-T/1.5-W12	
OKI-T/3-W32x-C*	3A	0.7525-4.5V	13.5W	24V	9V	32	89%	✓				0.82	0.34	0.47	11.9	8.5	11.9	OKI-T/3-W32		
OKI-T/3-W40x-C*		0.7525-5.5V	15W		16V	40V	88%	✓				0.82	0.34	0.47	11.9	8.5	11.9	OKI-T/3-W40		
OKI-T/36W-W40x-C*		5.021-15.5V	36W	19V		95%	✓				0.82	0.34	0.47	11.9	8.6	11.9	OKI-T/36W-W40			
OKL-T/3-W5x-C*		0.6-3.63V	9.9W	5V	2.4V	5.5V	95%	✓				0.48	0.24	0.48	12.2	6.2	12.2	OKL-T/3-W5		
OKL-T/3-W12x-C*	3A	0.591-5.5V	15W	12V	4.5V	14V	93%	✓				0.48	0.24	0.48	12.2	6.2	12.2	OKL-T/3-W12		
OKX-T/3-D12-C		0.75-5.5V			8.3V			✓				0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/3-D12		
OKY-T/3-D12x-C*						✓				0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-D12				
OKX-T/3-W5-C		0.7525-3.63V	9.9W	5V	2.4V	5.5V	94%			✓		0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/3-W5		
OKY-T/3-W5x-C*						✓					0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-W5			
OKR-T/3-W12-C		0.591-6V	15W	12V	4.5V	14V	93%				✓			0.65	0.22	0.41	10.4	5.6	10.4	OKR-T/3-W12
OKX-T/5-D12-C	0.75-5.5V	25W	8.3V		✓						0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/5-D12			
OKY-T/5-D12x-C*	5A	0.75-5.5V	16.5W	5V	2.4V	5.5V	94%	✓				0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-D12		
OKY-T/5-W5-C		0.7525-3.63V						✓				0.40	0.09	0.28	10.16	22.9	7.2	OKX-T/5-W5		
OKY-T/5-W5x-C*							✓					0.47	0.082	0.28	11.9	20.8	7.0	OKY-T/3, T/5-W5		
OKL-T/6-W5x-C*		0.6-3.3V	19.8W	12	4.5V	14V	93%	✓				0.48	0.28	0.48	12.2	7.2	12.2	OKL-T/6-W5		
OKL-T/6-W12x-C*	0.591-5.5V	30W	96%								0.65	0.3	0.41	10.4	7.6	10.4	OKR-T/6-W12			
OKR-T/6-W12-C		0.591-6V	50W				92%				0.65	0.3	0.41	10.4	7.6	10.4	OKR-T/10-W12			
OKX-T/10-D12x-C*	10A	0.7525-5.5V	33W	5V	2.4V	5.5V	96%				✓			2	0.5	0.37	9.4	12.7	9.4	OKX-T/10, T/16-D12
OKY-T/10-D12x-C*		0.7525-3.63V						50W	12V	8.3V	14V	95%	✓				0.53	0.33	1.3	33
OKY-T/10-W5x-C*		0.7525-3.63V	33W	5V	2.4V	5.5V	95%	✓				1.3	0.33	0.53	13.5	8.3	13.5	OKY-T/10, T/16-W5		
OKX-T/16-D12x-C*		0.7525-5.5V	80W	12V	8.3V	14V	94%				✓		0.5	0.37	2	50.8	9.4	50.8	OKX-T/10, T/16-D12	
OKX-T/16-W5x-C*	16A	0.7525-3.63V	52.8W	5V	2.4V	5.5V	95%				✓		2	0.5	0.37	9.4	12.7	9.4	OKX-T/10, T/16-W5	
OKY-T/16-D12x-C*		0.7525-5.5V	80W	12V	8.3V	14V	94%	✓				0.53	0.33	1.3	33	8.4	33	OKY-T/10, T/16-D12		
OKY-T/16-W5x-C*		0.7525-3.63V	52.8W	5V	2.4V	5.5V	95%	✓				1.3	0.33	0.53	13.5	8.3	13.5	OKY-T/10, T/16-W5		
OKDx-T/40-W12-C**	40A	0.6-3.3V	132W	12	4.5V	14V	95%	✓	✓		✓	1.215	0.787	0.323	30.85	20.0	8.2	OKDx-T/40-W12		

*x = N (negative) or P (positive) logic **x = Form factor

OKI-78SR Series fixed output voltages

OKI-78SR3.3/1.5-W36-C	1.5A	3.3V	4.95W	24V	7V	36V	86%			✓	0.65	0.3	0.41	16.5	7.62	10.4	OKI-78SR
OKI-78SR3.3/1.5-W36H-C										✓	0.65	0.3	0.41	16.5	7.62	10.4	
OKI-78SR5/1.5-W36-C		5V	7.5W	91%			✓	0.65	0.3	0.41	16.5	7.62	10.4				
OKI-78SR5/1.5-W36H-C							✓	0.65	0.3	0.41	16.5	7.62	10.4				

Single output

Isolated DC to DC converter series

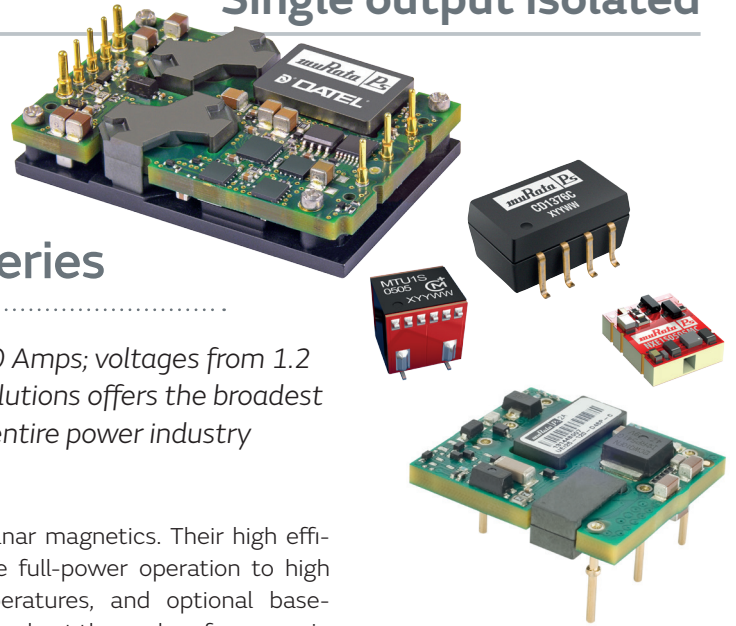
Power from 0.25 to 300 Watts; currents from 0.02 to 80 Amps; voltages from 1.2 to 96 Volts; inputs from 3 to 75 Volts ...Murata Power Solutions offers the broadest line of single-output, isolated DC/DC converters in the entire power industry ...without a doubt.

Our low-power encapsulated products (mini SIPs, DIPs and SMDs) are among the smallest available. Many use contemporary ceramic-substrates and copper-lead-frame technologies to achieve their small size.

At the other extreme, our high-power 1/32, 1/16, 1/8, 1/4, and 1/2 bricks are open-frame assemblies using multi-layer, heavy-copper pc

boards and planar magnetics. Their high efficiencies enable full-power operation to high ambient temperatures, and optional base-plates deliver the best thermal performance in the industry.

If you can't find the DC/DC power solution you need in the tables below, contact us, and we'll develop one for you.



Quick selection guide listed by output power

Output Power	Output Voltages								Series
	3.3V	5V	6V	9V	12V	15V	20V	24V	
<1W									CME
									CMR
									LME
									NMF
2-3W									MEE1
									MEF1
									MEJ1
									MER1
									MEU1
									MEV1
									MMV1
									MTE1
									MTU1
									NCS1
									NKE
									NME
3-4W								NMJ	
								NMR	
								NMV	
								NTE	
6-10W								NXE1	
								PWR13XXC	
								NDL	
								MEJ2	
10-12W								MTU2	
								NMG	
								NMK	
								NML	
15-18W								MEE3	
								MEV3	
								NDTS	
								NDY	
18-25W									
25-35W									
35-50W									
50-75W									
75-100W									
100-120W									
120-240W									
300-450W									

Output Power	Output Voltages											Series
	1.2V	1.5V	1.8V	2.5V	3.3V	5V	5.2V	12V	15V	24V	96V	
6-10W												NCM6
												NCS6
												NDS6
												UWR 9.6W
10-12W												NPH10
												NCS12
15-18W												NPH15
												RUW15
												SPM15
												UEI15
18-25W												UEI25
												UHE 12-30W
25-35W												SPM25
												UEI30
												ULS-30W
												ULT
35-50W												UEI 50-60W
												UEE
												UWS
50-75W												UEI 50-60W
												ULE
												ULS
												UVQ
75-100W												UWE
												UWS
												PAE
												UEE
100-120W												ULS 100W
												UQQ
												UVQ
												UWE 100-120W
120-240W												UVE 100-120W
												UVQ
												UWE 100-120W
												EMH
300-450W												HPQ 165W
												HPQ 182.6W
												PAQ
												RBE
												UEE 150W
												UWQ
300-450W												HPQ 300W
												PAH 350W
												PAH 450W
												PAH 450W
												RBQ

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information															
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com														
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H													
3.3V	0.3A	1W	3.3V	2.97V	3.63V	3kV	73%												0.45	0.236	0.293	11.48	6	7.46	CME0303S3C	CME											
							1kV	76%																	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0303DC	MEE1					
								76%																		0.24	0.45	0.39	6	11.5	10	MEE1S0303SC					
								78%																		0.327	0.240	0.313	8.3	6.1	7.95	MEU1S0303ZC	MEU1				
							5.2kV	78%																		0.5	0.43	0.27	12.7	11	7.05	MTE1S0303MC	MTE1				
								73%																		0.30	0.5	0.26	7.7	12.7	6.6	NTE0303MC	NTE				
						3kV	75%																		0.39	0.45	0.21	9.8	11.5	5.4	NKE0303DC	NKE					
							75%																		0.24	0.45	0.29	6	11.5	7.5	NKE0303SC						
							70%																		0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S0303SC	MEJ1					
						5V	4.5V	5.5V	3.3V	3.14V	3.47V	1kV	66%												0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0503DC	MEE1					
													3kV	66%																0.774	0.242	0.40	19.65	6.15	10.15	MEF1S0303SPC	MEF1
														76%																	0.24	0.45	0.39	6	11.5	10	MEE1S0503SC
			77%																									0.327	0.240	0.313	8.3	6.1	7.95	MEU1S0503ZC	MEU1		
			5.2kV	79%																								0.5	0.43	0.27	12.7	11	7.05	MTE1S0503MC	MTE1		
				74%																								0.30	0.5	0.26	7.7	12.7	6.6	NTE0503MC	NTE		
				3kV	75%																							0.39	0.45	0.21	9.8	11.5	5.4	NKE0503DC	NKE		
					69%																							0.24	0.45	0.29	6	11.5	7.5	NKE0503SC			
				5.2kV	64%																							0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S0503SC	MEJ1		
					64%																							0.39	0.77	0.49	9.8	19.5	12.5	NMJ0503SAC	NMJ		
			5V	4.75V	5.25V							1kV	3kV	5.25V	68.5%												0.774	0.242	0.40	19.65	6.15	10.15	MEF1S0503SPC	MEF1			
															3kV	68.5%															0.774	0.242	0.40	19.65	6.15	10.15	MEF1S0503SP3C
									77%																				0.861	0.323	0.445	21.87	8.2	11.30	NCS1S1203SC	NCS1	
									72%																				0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1203SC	MEJ1	
									12V	10.8V	13.2V				1kV	3kV	12.6V	69%											0.774	0.242	0.40	19.65	6.15	10.15	MEF1S1203SPC	MEF1	
																		69%														0.774	0.242	0.40	19.65	6.15	10.15
												24V	9V	36V	1kV	3kV	25.2V	78.5%										0.861	0.323	0.445	21.87	8.2	11.30	NCS1S2403SC	NCS1		
																		69%													0.774	0.242	0.40	19.65	6.15	10.15	MEF1S2403SPC
												24V	22.8V	25.2V	1kV	3kV		69%										0.774	0.242	0.40	19.65	6.15	10.15	MEF1S2403SPC	MEF1		
																		69%													0.774	0.242	0.40	19.65	6.15	10.15	MEF1S2403SP3C
									0.606A	2W	3.3V	2.97	3.63	5.2kV	70%											0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0303SC					
															70%													0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0503SC	MEJ2		
			73%																						0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1203SC						
			0.9A	3W	5V				4.5V	9V	1kV	63%											0.58	1.27	0.28	14.7	32.3	7	NDTS0503C								
						71%															0.58	1.27	0.28	14.7	32.3	7	NDTS1203C	NDTS									
						71%															0.58	1.27	0.28	14.7	32.3	7	NDTS2403C										
						70%															0.58	1.27	0.28	14.7	32.3	7	NDY2403C	NDY									
						71%															0.58	1.27	0.28	14.7	32.3	7	NDTS4803C	NDTS									
			1.52A	6W	12V	9V	36V	1.5kV	78%										1.26	0.79	0.39	32	20	10	NCS6S1203C	NCS6											
									76%											1.26	0.79	0.39	32	20	10	NCS6S4803C											
								5.2kV	75%											1.26	0.787	0.423	32	20	10.75	NCM6S0503C											
79%																	1.26	0.787	0.423	32	20	10.75	NCM6S1203C	NCM6													
2.94A	10W	24V	18V	36V	1.5kV	79%									0.98	1.26	0.39	25	32	10	NPH10S2403EIC																
						79%										0.98	1.26	0.39	25	32	10	NPH10S2403IC															
						80%										0.98	1.26	0.39	25	32	10	NPH10S4803EIC	NPH10S														
3.64A	12W	12V	9V	36V	1.5kV	83.5%								1.26	0.787	0.394	32	20	10	NCS12S1203C																	
						85.5%									1.26	0.787	0.394	32	20	10	NCS12S4803C	NCS12															
4.4A	15W	24V	18V	36V	1.5kV	81%								1	2	0.39	25	50	10	NPH15S2403EIC																	
						81%									1	2	0.39	25	50	10	NPH15S2403IC																
						83%									1	2	0.39	25	50	10	NPH15S4803EIC	NPH15S															
4.5A	14.9W	24V	9V	36V	1.5kV	87.5%								1.1	0.96	0.36	27.9	24.4	9.1	UEI15-033-Q12P-C																	
						88%									1.1	0.96	0.36	27.9	24.4	9.1	UEI15-033-Q48NR-C	UEI 15W															

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information					
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com				
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H			
3.3V	7.5A	24.75W	24V	9V	36V	1.5kV	88%											2	1.6	0.4	50.8	40.6	10.2	UHE-3.3/7500-Q12-C	UHE12-30W		
				18V																2	1.6	0.4	50.8	40.6		10.2	UHE-3.3/7500-Q48-C
			48V	36V	75V	1.5kV	85.5%												0.92	0.75	0.35	23.4	19.1	8.9	ULT-3.3/7.5-D48	ULT	
			1.6kV			91%														2	1.6	0.4	50.8	40.6	10.2	UHE-3.3/7500-D48-C	UHE12-30W
			2.25kV			89.5%														1	1	0.41	25.4	25.4	10.4	SPM25-033-D48	SPM25
		25W																	1.1	0.32	0.96	27.9	8.13	24.4	UEI25-033-D48	UEI25	
	8A	26.4W	48V	36V	75V	2.25kV	90%											0.9	1.3	0.36	22.9	33	9.14	ULS-3.3/8-D48	ULS-30W		
	9A	29.7W	24V	9V	36V	2.25kV	89%												1.92	0.35	0.92	48.8	8.9	23.4	UEI30-033-Q12P-C	UEI30	
			48V	18V	75V	2.25kV	89.5%												1.92	0.35	0.92	48.8	8.9	23.4	UEI30-033-Q48N-C		
	15A	49.5W	24V	9V	36V	1.5kV	87.5%												1.95	1.55	0.375	49.5	39.4	9.5	UEI-3.3/15-Q12PR-C	UEI-50/60	
			48V	18V	75V	2.25kV	89%												0.91	1.31	0.36	23.1	33.27	9.14	UWS-3.3/15-Q48	UWS	
		50W	48V	36V	75V	2.25kV	90%												2.3	0.9	0.4	58.4	22.9	10.2	UEE-3.3/15-D48	UEE	
	18A	59.4W	48V	18V	75V	2.25kV	89.5%												1.95	1.55	0.375	49.5	39.4	9.5	UEI-3.3/18-Q48NR-C	UEI-50/60	
	20A	66W	12V	9V	36V	2.25kV	89%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-3.3/20-Q12P-C	UWE	
			24V	18V	36V	2kV	89%												2.3	0.9	0.41	58.4	22.9	10.4	ULE-3.3/20-D24P-C	ULE20A	
			48V	18V	75V	2.25kV	89.5%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-3.3/20-Q48N-C	UWE	
	20A	66W	48V	36V	75V	2.25kV	89%												2.3	0.9	0.41	58.4	22.9	10.4	ULE-3.3/20-D48N-C	ULE20A	
							90%															1.3	0.4	0.9	33.02	10.16	22.86
							90%												2.3	0.9	0.4	58.4	22.9	10.2	UEE-3.3/25-D48	UEE	
	25A	82.5W	48V	18V	75V	2.25kV	90%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-3.3/25-Q12P-C	UQQ 7-15A	
12V			9V	36V	2kV	88%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-3.3/25-Q48N-C			
		48V	18V	75V	2.25kV	88.5%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-3.3/25-Q48N-C			
30A	99W	48V	18V	75V	2.25kV	89.5%												2.3	0.9	0.39	58.4	22.9	9.9	UWE-3.3/30-Q48-C	UWE-100-120W		
			36V	75V	2.25kV	90%													2.3	0.9	0.4	58.4	22.9	10.2	UEE-3.3/30-D48	UEE	
								91%												1.3	0.9	0.4	33	22.9	10.2	ULS-3.3/30-D48	ULS-100W
45.5A	150W	48V	36V	75V	2.25kV	92%												2.3	0.9	0.4	58.4	22.9	10.2	UEE-3.3/45-D48	UEE 150W		
50A	165W	48V	36V	75V	2.25kV	90%												2.3	1.45	0.4	58.4	36.8	10.2	HPQ-3.3/50-D48N-C	HPQ		
5V	0.05A	0.25W	3.3V	2.97V	3.63V	1kV	70%											0.24	0.45	0.39	6	11.5	10	LME0305SC	LME		
			5V	4.5V	5.5V	1kV	70%												0.39	0.45	0.27	9.8	11.5	6.8		LME0505DC	
																			0.24	0.45	0.39	6	11.5	10		LME0505SC	
			12V	10.8V	13.2V	1kV	70%												0.39	0.45	0.27	9.8	11.5	6.8		LME1205DC	
	0.1A	0.5W	5V	4.75V	5.25V	1kV	50%												0.39	0.77	0.27	9.8	19.5	6.8	NMF0505DC	NMF	
																			0.24	0.77	0.39	6	19.5	10	NMF0505SC		
			12V	11.4V	12.6V	1kV	50%												0.39	0.77	0.27	9.8	19.5	6.8	NMF1205DC		
																			0.24	0.77	0.39	6	19.5	10	NMF1205SC		
			24V	22.8V	25.2V	1kV	50%											0.39	0.77	0.27	9.8	19.5	6.8	NMF2405DC			
																		0.24	0.77	0.39	6	19.5	10	NMF2405SC			
	0.15A	0.75W	3.3V	2.97V	3.63V	3kV	73%												0.45	0.236	0.293	11.48	6	7.46	CME03053C	CME	
						1kV	70%												0.453	0.386	0.267	11.50	9.80	6.80	CME0505DC		
																			0.45	0.236	0.393	11.48	6	10	CME0505SC		
			5V	4.5V	5.5V	3kV													0.45	0.236	0.293	11.48	6	7.46	CME05053C		
						1kV	69%													0.77	0.236	0.394	19.50	6	10		CMR100C
						3kV	68%													0.77	0.236	0.394	19.50	6	10		CMR0505SA3C
	0.2A	1W	24V	21.6V	26.4V	1kV	70%												0.77	0.236	0.394	19.50	6	10	CMR118C		
																			0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0305DC	MEE1	
																			0.24	0.45	0.39	6	11.5	10	MEE1S0305SC		
																			0.327	0.240	0.313	8.3	6.1	7.95	MEU1S03052C	MEU1	
																		0.5	0.43	0.27	12.7	11	7.05	MTE1S0305MC	MTE1		
																		0.323	0.331	0.335	8.2	8.4	8.5	MTU1S0305MC	MTU1		
																		0.30	0.5	0.26	7.7	12.7	6.6	NTE0305MC	NTE		
																		0.39	0.45	0.212	9.8	11.5	5.4	NKE0305DC	NKE		
																		0.24	0.45	0.293	6	11.5	7.5	NKE0305SC			
																		0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S0305SC	MEJ1		
																0.774	0.242	0.40	19.65	6.15	10.15	MEF1S0305SPC	MEF1				
																0.774	0.242	0.40	19.65	6.15	10.15	MEF1S0305SP3C					
			5V	4.5V	5.5V	1kV	80%										0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0505DC	MEE1			
																0.24	0.45	0.39	6	11.5	10	MEE1S0505SC					

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information													
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com												
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H											
5V	0.2A	1W	5V	4.5V	5.5V	1kV	81%												0.327	0.240	0.313	8.3	6.1	7.95	MEU1S0505ZC	MEU1									
							84%																	0.24	0.24	0.39	6	19.5	10	MER1S0505SC	MER1				
							82%																		0.5	0.43	0.27	12.7	11	7.05	MTE1S0505MC	MTE1			
							83%																		0.323	0.331	0.335	8.2	8.4	8.5	MTU1S0505MC	MTU1			
							69%																			0.39	0.45	0.27	9.8	11.5	6.8	NME0505DC	NME		
							69%																			0.24	0.45	0.39	6	11.5	10	NME0505SC	NME		
						69%																			0.24	0.77	0.39	6	19.5	10	NMR100C	NMR			
						68%																			0.30	0.5	0.26	7.7	12.7	6.6	NTE0505MC	NTE			
						77%																			0.30	0.5	0.26	7.7	12.7	6.6	NTE0505MEC	NTE			
						84%																			0.39	0.77	0.27	9.8	19.5	6.8	MEV1S0505DC	MEV1			
						78%																			0.24	0.77	0.39	6	19.5	10	MEV1S0505SC	MEV1			
						78%																			0.77	0.236	0.394	19.5	6	10	MMV1S0505SC	MMV1			
						69%																			0.39	0.45	0.21	9.8	11.5	5.4	NKE0505DC	NKE			
						78%																			0.24	0.45	0.29	6	11.5	7.5	NKE0505SC	NKE			
						78%																			0.39	0.45	0.21	9.8	11.5	5.4	NKE0505DEC	NKE			
						68%																			0.24	0.45	0.29	6	11.5	7.5	NKE0505SEC	NKE			
						68%																			0.39	0.77	0.27	9.8	19.5	6.8	NMV0505DAC	NMV			
						72%																			0.24	0.77	0.39	6	19.5	10	NMV0505SAC	NMV			
			68%																			0.39	0.77	0.49	9.8	19.5	12.5	MEJ1S0505SC	MEJ1						
			73%																			0.774	0.242	0.40	19.65	6.15	10.15	NMJ0505SAC	NMJ						
			73%																			0.774	0.242	0.40	19.65	6.15	10.15	MEF1S0505SP3C	MEF1						
			12V	10.8V	13.2V	1kV	79%															0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1205DC	MEE1						
							84%																	0.24	0.45	0.39	6	11.5	10	MEE1S1205SC	MEE1				
							84%																	0.24	0.77	0.39	6	19.5	10	MER1S1205SC	MER1				
							83%																		0.327	0.240	0.313	8.3	6.1	7.95	MEU1S1205ZC	MEU1			
							84%																		0.5	0.43	0.27	12.7	11	7.05	MTE1S1205MC	MTE1			
							84%																		0.323	0.331	0.335	8.2	8.4	8.5	MTU1S1205MC	MTU1			
							69%																		0.39	0.45	0.27	9.8	11.5	6.8	NME1205DC	NME			
							69%																		0.24	0.45	0.39	6	11.5	10	NME1205SC	NME			
							69%																		0.24	0.77	0.39	6	19.5	10	NMR106C	NMR			
							67%																			0.30	0.5	0.26	7.7	12.7	6.6	NTE1205MC	NTE		
							84%																			0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1205DC	MEV1		
							84%																			0.24	0.77	0.39	6	19.5	10	MEV1S1205SC	MEV1		
						71%																			0.39	0.45	0.21	9.8	11.5	5.4	NKE1205DC	NKE			
						69%																			0.24	0.45	0.29	6	11.5	7.5	NKE1205SC	NKE			
						69%																			0.39	0.77	0.27	9.8	19.5	6.8	NMV1205DAC	NMV			
						69%																			0.24	0.77	0.39	6	19.5	10	NMV1205SAC	NMV			
						74.5%																			0.39	0.77	0.49	9.8	19.5	12.5	NMJ1205SAC	NMJ			
						74.5%																			0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1205SC	MEJ1			
						12V	4.5V	18V	1kV	79%															0.861	0.323	0.445	21.87	8.2	11.30	NCS1S1205SC	NCS1			
										73.5%																	0.774	0.242	0.40	19.65	6.15	10.15	MEF1S1205SP3C	MEF1	
						15V	13.5V	16.5V	1kV	77%															0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1505DC	MEE1			
										83%																	0.24	0.45	0.39	6	11.5	10	MEE1S1505SC	MEE1	
										83.5%																		0.5	0.43	0.27	12.7	11	7.05	MTE1S1505MC	MTE1
										69%																		0.24	0.77	0.39	6	19.5	10	MER1S1505SC	MER1
			69%																							0.24	0.77	0.39	6	19.5	10	NMR112C	NMR		
			83.5%																						0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1505DC	MEV1			
			67%																						0.24	0.77	0.39	6	19.5	10	MEV1S1505SC	MEV1			
74%																						0.24	0.77	0.39	6	19.5	10	NMV1505SAC	NMV						
74%																						0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1505SC	MEJ1						
24V	9V	36V	1kV	82%																		0.861	0.323	0.445	21.87	8.2	11.30	NCS1S2405SC	NCS1						
				75%																				0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2405DC	MEE1				
24V	21.6V	26.4V	1kV	84%																		0.24	0.45	0.39	6	11.5	10	MEE1S2405SC	MEE1						
				84%																	0.24	0.77	0.39	6	19.5	10	MER1S2405SC	MER1							
83%																			0.5	0.43	0.27	12.7	11	7.05	MTE1S2405MC	MTE1									

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information										
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com									
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H								
5V	0.2A	1W	24V	21.6V	26.4V	1kV	70%											0.39	0.45	0.27	9.8	11.5	6.8	NME2405DC	NME2							
							70%															0.24	0.45	0.39		6	11.5	10	NME2405SC			
						3kV	84%																0.24	0.77	0.39	6	19.5	10	NMR118C	NMR		
							84%																0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2405DC	MEV1		
						5.2kV	75%																0.24	0.77	0.39	6	19.5	10	MEV1S2405SC			
							75%																0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S2405SC	MEJ1		
			73%															0.774	0.242	0.40	19.65	6.15	10.15	MEF1S2405SP3C								
			3kV	79.5%																0.24	0.77	0.39	6	19.5	10	MER1S4805SC	MER1					
				84%																0.24	0.77	0.39	6	19.5	10	MEV1S4805SC		MEV1				
			48V	43.2V	52.8V	1kV	75%														1.27	0.81	0.4	32.3	20.5	10.2	PWR1300AC	PWR13XXC				
							75%															1.27	0.81	0.4	32.3	20.5	10.2		PWR1306AC			
			0.3A	1.5W	5V	4.5V	5.5V	8kV	75%												0.323	0.331	0.335	8.2	8.4	8.50	MTU2S0305MC	MTU2				
	75%																					0.77	0.39	0.5	19.65	9.95	12.65		MEJ2S0305SC			
	0.4A	2W	3.3V	2.97	3.63	1kV	79%												0.323	0.331	0.335	8.2	8.4	8.50	MTU2S0505MC	MTU2						
							74%															0.77	0.39	0.5	19.65		9.95	12.65	MEJ2S0505SC			
						5.2kV	82%																0.323	0.331	0.335	8.2	8.4	8.50	MTU2S0505MC	MTU2		
							81%																0.30	0.77	0.4	7.5	19.5	10	NMG0505SC		NMG	
						3kV	78%																0.30	0.55	0.39	7.5	14	10	NML0505SC	NML		
							80%																0.30	0.77	0.4	7.5	19.5	10	NMK0505SAC		NMK	
			5.2kV	75%	9V	1kV	66%														0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0505SC	MEJ2				
							66%															0.36	0.86	0.44	9.2	21.8	11.1		NDL0505SC			
			0.4A	2W	12V	10.8V	13.2V	1kV	73%												0.36	0.86	0.44	9.2	21.8	11.1	NDL1205SC	NDL				
									85%															0.323	0.331	0.335	8.2		8.4	8.50	MTU2S1205MC	MTU2
								3kV	81%																0.30	0.77	0.4	7.5	19.5	10	NMG1205SC	NMG
									81%																0.30	0.55	0.39	7.5	14	10	NML1205SC	
	5.2kV	80%																					0.30	0.77	0.4	7.5	19.5	10	NMK1205SAC	NMK		
		78%																					0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1205SC		MEJ2	
	15V	13.5V			16.5V	3kV	84%														0.30	0.77	0.4	7.5	19.5	10	NMK1505SAC	NMK				
							76%															0.77	0.39	0.5	19.65	9.95	12.65		MEJ2S1505SC			
						5.2kV	74%																0.36	0.86	0.44	9.2	21.8	11.1	NDL2405SC	NDL		
							74%																0.36	0.86	0.44	9.2	21.8	11.1	NDL2405SC			
						24V	18V	36V	1kV	80%														0.323	0.331	0.335	8.2	8.4	8.50	MTU2S2405MC	MTU2	
										84%															0.30	0.77	0.4	7.5	19.5	10		NMK2405SAC
	48V	36V	72V	1kV	73%														0.36	0.86	0.44	9.2	21.8	11.1	NDL4805SC	NDL						
					73%															0.56	0.32	0.4	14.15	8.15	10.15		MEE3S0505SC	MEE3				
	0.6A	3W	5V	4.5V	5.5V	1kV	83%												0.56	0.32	0.4	14.15	8.15	10.15	MEE3S0505SC	MEE3						
							83%															0.4	0.77	0.3	10.2		19.7	7.7	MEV3S0505SC	MEV3		
						9V	18V	1kV	71%														0.58	1.27	0.28	14.7	32.3	7	NDTS0505C	NDTS		
									66%															0.58	1.27	0.28	14.7	32.3	7		NDY0505C	NDY
						12V	9V	18V	1kV	73%													0.58	1.27	0.28	14.7	32.3	7	NDTS1205C	NDTS		
71%																								0.58	1.27	0.28	14.7	32.3	7		NDY1205C	NDY
10.8			13.2	3kV	85%															0.56	0.32	0.4	14.15	8.15	10.15	MEE3S1205SC	MEE3					
					84%															0.4	0.77	0.3	10.2	19.7	7.7	MEV3S1205SC		MEV3				
24V			18V	36V	1kV	78%														0.58	1.27	0.28	14.7	32.3	7	NDTS2405C	NDTS					
						70%															0.58	1.27	0.28	14.7	32.3	7		NDY2405C	NDY			
					48V	36V	72V	1kV	75%													0.58	1.27	0.28	14.7	32.3	7	NDTS4805C	NDTS			
									73%															0.58	1.27	0.28	14.7	32.3		7	NDY4805C	NDY
	1.2A	6W			12V	9V	36V	1.5kV	82%												1.26	0.79	0.39	32	20	10	NCS6S1205C	NCS6				
									82%															1.26	0.79	0.39	32		20	10	NDS6S2405C	NDS6
80%																					1.26	0.79	0.39	32	20	10	NCS6S4805C	NCS6				
48V			18V	75V	5.2kV	80%													1.26	0.787	0.423	32	20	10.75	NCM6S0505C	NCM6						
						82%															1.26	0.787	0.423	32	20		10.75	NCM6S1205C				
					78%																1.26	0.787	0.423	32	20	10.75	NCM6S4805C					
1.96A	10W	24V	18V	36V	1.5kV	83%												0.98	1.26	0.39	25	32	10	NPH10S2405EIC	NPH10S							
						83%															0.98	1.26	0.39	25		32	10	NPH10S2405IC				
		48V	36V	75V	1.5kV	83%													0.98	1.26	0.39	25	32	10	NPH10S4805EIC	NPH10S						
						83%															0.98	1.26	0.39	25	32		10	NPH10S4805IC				
2.4A	12W	12V	9V	36V	1.5kV	88%												1.26	0.787	0.394	32	20	10	NCS12S1205C	NCS12							
						87.5%															1.26	0.787	0.394	32		20	10	NCS12S4805C				

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information					
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to data-sheets for available options.	Datasheet Available at www.murata-ps.com				
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H			
5V	3A	15W	24V	9V	36V	1.5kV	87%											1.1	0.96	0.36	27.9	24.4	9.1	UEI15-050-Q12P-C	UEI 15W		
						1.6kV	88%														1	1	0.41	25.4	25.4	10.4	SPM15-050-Q12
			24V	18V	36V	1.5kV	84%													0.98	1.97	0.39	25	50	10	NPH15S2405EIC	NPH15S
						2.25kV	86%														0.98	1.97	0.39	25	50	10	NPH15S2405IC
			48V	18V	75V	2.25kV	86%													1.1	0.96	0.36	27.9	24.4	9.1	UEI15-050-Q48N-C	UEI15W
						1.5kV	85%														0.98	1.97	0.39	25	50	10	NPH15S4805EIC
	N/A	16V	160V	4kV	78%													2	2	0.79	50.8	50.8	20	RUW15SL05C	RUW15		
					77%														2	2	0.79	50.8	50.8	20	RUW15SL05HC	RUW15	
	5A	25W	24V	9V	36V	1.5kV	87.5%												2	1.6	0.4	50.8	40.6	10.2	UHE-5/5000-Q12-C	UHE12-30W	
						1.5kV	90%													2	1.6	0.4	50.8	40.6	10.2	UHE-5/5000-Q48-C	UHE12-30W
						1.6kV	91%													1	1	0.41	25.4	25.4	10.4	SPM25-050-D48	SPM25
			48V	36V	75V	1.5kV	89%													0.92	0.75	0.35	23.4	19.1	8.9	ULT-5/5-D48	ULT
						2.25kV	91%													1.1	0.32	0.96	27.9	8.13	24.4	UEI25-050-D48	UEI25
						1.5kV	91.5%													2	1.6	0.4	50.8	40.6	10.2	UHE-5/6000-Q12-C	UHE12-30W
	6A	30W	24V	9V	36V	1.5kV	91.5%											2	1.6	0.4	50.8	40.6	10.2	UHE-5/6000-Q12-C	UHE12-30W		
						2.25kV	89.5%												1.92	0.35	0.92	48.8	8.9	23.4	UEI30-050-Q12P-C	UEI30	
			36V	75V	1.5kV	91.5%												2	1.6	0.4	50.8	40.6	10.2	UHE-5/6000-D48-C	UHE12-30W		
					2.25kV	91%												1.92	0.35	0.92	48.8	8.9	23.4	UEI30-050-Q48N-C	UEI30		
			48V	18V	75V	1.5kV	91.5%												2	1.6	0.4	50.8	40.6	10.2	UHE-5/6000-Q48-C	UHE12-30W	
						2.25kV	91%												1.92	0.35	0.92	48.8	8.9	23.4	UEI30-050-Q48N-C	UEI30	
	10A	50W	24V	9V	36V	1.5kV	90%											1.95	1.55	0.375	49.5	39.4	9.5	UEI-5/10-Q12PR-C	UEI50/60		
						2.25kV	91%												0.91	1.31	0.36	23.1	33.27	9.14	UWS-5/10-Q48	UWS	
	12A	60W	24V	18V	36V	2kV	90%											2.3	0.9	0.41	58.4	22.9	10.4	ULE-5/12-D24P-C	ULE20A		
						2.25kV	91%												1.95	1.55	0.375	49.5	39.4	9.5	UEI-5/12-Q48NR-C	UEI50/60	
			48V	18V	75V	2.25kV	91%											2.3	0.9	0.41	58.4	22.9	10.4	ULE-5/12-D48N-C	ULE20A		
						2.25kV	90%												1.3	0.4	0.9	33.02	10.16	22.86	ULS-5/12-D48N-C	ULS	
	15A	75W	12V	9V	36V	2.25kV	91%											2.3	0.38	0.9	58.4	9.7	22.9	UWE-5/15-Q12P-C	UWE		
						2.25kV	90%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-5/15-Q48N-C	UWE	
	17A	85W	12V	9V	36V	2kV	90.5%											2.22	1.45	0.43	56.4	36.8	10.9	UQQ-5/17-Q12P-C	UQQ7-15A		
						2.25kV	91%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-5/20-Q48N-C	UQQ7-15A	
20A	100W	48V	18V	75V	2.25kV	89%											2.3	0.9	0.39	58.4	22.9	9.9	UWE-5/20-Q48-C	UWE-100-120W			
					2.25kV	91%												1.3	0.9	0.4	33	22.9	10.2	ULS-5/20-D48	ULS-100W		
		36V	75V	2.25kV	89%												2.3	1.45	0.42	58.4	36.8	10.7	UVQ-5/20-D48N-C	UVQ			
				2.25kV	92%												2.3	0.9	0.4	58.4	22.9	10.2	UEE-5/30-D48	UEE 150W			
6V	0.167A	1W	5V	4.5V	5.5V	1kV	84%										0.5	0.43	0.27	12.7	11	7.05	MTE1S0506MC	MTE1			
							72%													0.30	0.5	0.26	7.7	12.7	6.6	NTE0506MC	NTE
8.3V	22A	182.6W	48V	36V	75V	2.25kV	92.5%										2.3	0.4	1.45	58.4	10.2	36.8	HPQ-8.3/22-D48	HPQ			
9V	0.028A	0.25W	5V	4.5V	5.5V	1kV	75%										0.39	0.45	0.27	9.8	11.5	6.8	LME0509DC	LME			
							75%												0.24	0.45	0.39	6	11.5		10	LME0509SC	
			12V	10.8V	13.2V	1kV	75%										0.39	0.45	0.27	9.8	11.5	6.8	LME1209DC				
	0.1A	0.9W	24V	22.8V	25.2V	1kV	62%										0.39	0.77	0.27	9.8	19.5	6.8	NMF2409DC	NMF			
							62%												0.24	0.77	0.39	6	19.5		10	NMF2409SC	
	0.111A	1W	3.3V	2.97V	3.63V	1kV	79%										0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0309DC	MEE1			
							79%											0.24	0.45	0.39	6	11.5	10		MEE1S0309SC		
							85%												0.327	0.240	0.313	8.3	6.1		7.95	MEU1S0309ZC	
						3kV	75%	0.5	0.43	0.27	12.7	11	7.05	MTE1S0309MC	MTE1												
								0.30	0.5	0.26	7.7	12.7	6.6	NTE0309MC	NTE												
								0.39	0.45	0.21	9.8	11.5	5.4	NKE0309DC	NKE												
			5V	4.5V	5.5V	1kV	80%											0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0509DC	MEE1		
							80%											0.24	0.45	0.39	6	11.5	10	MEE1S0509SC			
						1kV	87%												0.24	0.77	0.39	6	19.5	10	MER1S0509SC	MER1	
							81%												0.327	0.240	0.313	8.3	6.1	7.95	MEU1S0509ZC	MEU1	
	1kV	85%													0.5	0.43	0.27	12.7	11	7.05	MTE1S0509MC	MTE1					
		86%													0.323	0.331	0.335	8.2	8.4	8.5	MTU1S0509MC	MTU1					
		77%													0.39	0.45	0.27	9.8	11.5	6.8	NME0509DC	NME					
75%														0.24	0.45	0.39	6	11.5	10	NME0509SC	NME						

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information											
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to data-sheets for available options.	Datasheet Available at www.murata-ps.com										
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H									
9V	0.111A	1W	5V	4.5V	5.5V	3kV	86.5%															MEV150509DC	MEV1										
																										MEV150509SC							
						3kV	75%																				NKE0509DC	NKE					
																											NKE0509SC						
						3kV	75%																					NMV0509DAC	NMV				
																												NMV0509SAC					
			5.2kV	74%																					MEJ150509SC	MEJ1							
				72%																					NMJ0509SAC								
			12V	10.8V	13.2V	1kV			79%																	MEE1S1209DC	MEE1						
																														MEE1S1209SC			
									86.5%																					MER1S1209SC	MER1		
									84%																					MEU1S1209ZC			
									86%																						MTE1S1209MC	MTE1	
																															MTU1S1209MC		
			1kV			87%																				NME1209DC	NME						
						74%																						NME1209SC					
						73%																						NTE1209MC	NTE				
																												MEV1S1209DC					
						86%																						MEV1S1209SC	MEV1				
						78%																						NKE1209DC					
			3kV						78%																		NKE1209SC	NKE					
									74%																						NMV1209DAC		
																																NMV1209SAC	NMV
									76.5%																						MEJ1S1209SC	MEJ1	
	73%																												NMJ1209SAC	NMJ			
	77%																														MEE1S1509DC	MEE1	
	15V	13.5V	16.5V	1kV			86.5%																		MER1S1509SC	MER1							
							86%																						MTE1S1509MC				
							86.5%																						MEV1S1509DC	MEV1			
																													MEV1S1509SC				
							76%																						MEJ1S1509SC	MEJ1			
							74%																								MEE1S2409DC	MEE1	
	24V	21.6V	26.4V	1kV			86.5%																		MER1S2409SC	MER1							
							86%																						MTE1S2409MC				
							75%																						NME2409DC	NME2			
																													NME2409SC				
							86.5%																						MEV1S2409DC	MEV1			
																															MEV1S2409SC		
	77%																							MEJ1S2409SC	MEJ1								
	83%																							MER1S4809SC		MER1							
	82%																							MEV1S4809SC	MEV1								
	0.22A	2W	5V	4.5V	5.5V	9V	71%																	NDL0509SC		NDL							
							1kV	84%																					NMG0509SC				
								81%																						NML0509SC	NML		
								83%																						NMK0509SAC			
			5.2kV	78%																						MEJ250509SC	MEJ2						
				1kV	79%																					NDL1209SC		NDL					
					83%																								NMG1209SC				
			12V	10.8V	13.2V	1kV			84%																		NML1209SC	NML					
									83%																						NMK1209SAC		
									83%																							NMK1209SAC	NMK
									79%																							MEJ2S1209SC	
			15V	13.5V	16.5V	3kV			86%																		NMK1509SAC	NMK					
	78%																												MEJ2S1509SC				
	24V	18V	36V	1kV			81%																		NDL2409SC	NDL							
							87%																							NMK2409SAC			
	48V	36V	72V	1kV			80%																			NDL4809SC	NDL						

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information																
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com															
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L			W	H													
9V	0.333A	3W	5V	4.5V	5.5V	1kV	87%																			MEE3S0509SC	MEE3										
					3kV	87%																							MEV3S0509SC	MEV3							
			12V	9V	18V	1kV	72%																						NDY0509C	NDY							
					18V	1kV	78%																							NDY1209C	NDY						
			12V	10.8	13.2	1kV	88%																							MEE3S1209SC	MEE3						
						3kV	87.5%																								MEV3S1209SC	MEV3					
			24V	18V	36V	1kV	78%																							NDY2409C	NDY						
			48V	36V	72V	1kV	80%																							NDY4809C	NDY						
12V	0.021A	0.25W	5V	4.5V	5.5V	1kV	75%																					LME0512DC	LME								
						3kV	75%																									LME0512SC					
			12V	10.8V	13.2V	1kV	75%																								LME1212DC						
						3kV	75%																									LME1212SC					
	0.063A	0.75W	5	4.5	5.5	1kV	77%																						CME0512SC	CME							
						3kV	75%																									CME0512S3C					
	0.083A	1W	3.3V	2.97V	3.63V	1kV	81%																							MEE1S0312DC	MEE1						
							81%																											MEU1S0312SC			
							86%																												MEU1S0312ZC		
							77%																												MTE1S0312MC		
							81%																												NTE0312MC	NTE	
							81%																												MEE1S0512DC		
							87%																												MEE1S0512SC	MEE1	
							83%																												MER1S0512SC		
							87%																													MER1S0512ZC	MER1
							87%																												MTU1S0512MC		
							87%																													MTU1S0512MC	MTU1
			78%																												NME0512DC						
			78%																												NME0512SC	NME					
			77%																												NMR101C						
			77%																												NTE0512MC	NTE					
			87%																												MEV1S0512DC						
			87%																												MEV1S0512SC	MEV1					
			77%																												NKE0512DC						
			77%																												NKE0512SC	NKE					
			74%																												NMV0512DAC						
			74%																												NMV0512SAC	NMV					
			74%																												MEJ1S0512SC						
			71%																												NMJ0512SAC	NMJ					
			62%																												NMF0512DC						
			62%																												NMF0512SC	NMF					
			78%																												NCS1S1212SC						
			82%																												MEE1S1212DC	MEE1					
			82%																												MEE1S1212SC						
			88.5%																												MER1S1212SC	MER1					
			86%																												MEU1S1212ZC						
			88%																												MTE1S1212MC	MTE1					
	88%																												MTU1S1212MC								
	76%																												NME1212DC	NME							
	76%																												NME1212SC								
	88%																												MEV1S1212DC	MEV1							
88%																												MEV1S1212SC									
76%																												NMR107C	NMR								
74%																												NTE1212MC									
79%																												NKE1212DC	NKE								
79%																												NKE1212SC									
77%																												NMV1212DAC	NMV								
77%																												NMV1212SAC									

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information							
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com						
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H					
12V	0.083A	1W	12V	10.8V	13.2V	5.2kV	76.5%												0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1212SC	MEJ1			
							73%														0.39	0.77	0.49	9.8	19.5	12.5	NMJ1212SAC	NMJ	
				11.4V	12.6V	1kV	62%														0.39	0.77	0.27	9.8	19.5	6.8	NMF1212DC	NMF	
																					0.24	0.77	0.39	6	19.5	10	NMF1212SC		
																						0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1512DC	MEE1
																						0.24	0.45	0.39	6	11.5	10	MEE1S1512SC	
																						0.24	0.77	0.39	6	19.5	10	MER1S1512SC	MER1
																						0.5	0.43	0.27	12.7	11	7.05	MTE1S1512MC	MTE1
																						0.24	0.77	0.39	6	19.5	10	NMR113C	NMR
																						0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1512DC	MEV1
																						0.24	0.77	0.39	6	19.5	10	MEV1S1512SC	
																						0.24	0.77	0.39	6	19.5	10	NMV1512SAC	NMV
																					0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1512SC	MEJ1	
																					0.861	0.323	0.445	21.87	8.2	11.30	NCS1S2412SC	NCS1	
																					0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2412DC	MEE1	
																					0.24	0.45	0.39	6	11.5	10	MEE1S2412SC		
																					0.24	0.77	0.39	6	19.5	10	MER1S2412SC	MER1	
																					0.5	0.43	0.27	12.7	11	7.05	MTE1S2412MC	MTE1	
																					0.39	0.45	0.27	9.8	11.5	6.8	NME2412DC	NME2	
																					0.24	0.45	0.39	6	11.5	10	NME2412SC		
																					0.24	0.77	0.39	6	19.5	10	NMR119C	NMR	
																					0.39	0.77	0.27	9.8	19.5	6.8	MEV1S2412DC	MEV1	
																					0.24	0.77	0.39	6	19.5	10	MEV1S2412SC		
																					0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S2412SC	MEJ1	
																				0.39	0.77	0.27	9.8	19.5	6.8	NMF2412DC	NMF		
																				0.24	0.77	0.39	6	19.5	10	NMF2412SC			
																				0.24	0.77	0.39	6	19.5	10	MER1S4812SC	MER1		
																				0.24	0.77	0.39	6	19.5	10	MEV1S4812SC	MEV1		
																				1.27	0.81	0.4	32.3	20.5	10.2	PWR1301AC	PWR13XXC		
																				1.27	0.81	0.4	32.3	20.5	10.2	PWR1307AC			
																				0.36	0.86	0.44	9.2	21.8	11.1	NDL0512SC	NDL		
																				0.30	0.77	0.4	7.5	19.5	10	NMG0512SC	NMG		
																				0.30	0.55	0.39	7.5	14	10	NML0512SC	NML		
																				0.30	0.77	0.4	7.5	19.5	10	NMK0512SAC	NMK		
																				0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S0512SC	MEJ2		
																				0.36	0.86	0.44	9.2	21.8	11.1	NDL1212SC	NDL		
																				0.30	0.77	0.4	7.5	19.5	10	NMG1212SC	NMG		
																				0.30	0.55	0.39	7.5	14	10	NML1212SC	NML		
																				0.30	0.77	0.4	7.5	19.5	10	NMK1212SAC	NMK		
																				0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1212SC	MEJ2		
																				0.30	0.77	0.4	7.5	19.5	10	NMK1512SAC	NMK		
																				0.77	0.39	0.5	19.65	9.95	12.65	MEJ2S1512SC	MEJ2		
																				0.36	0.86	0.44	9.2	21.8	11.1	NDL2412SC	NDL		
																				0.30	0.77	0.4	7.5	19.5	10	NMK2412SAC	NMK		
																				0.36	0.86	0.44	9.2	21.8	11.1	NDL4812SC	NDL		
																				0.56	0.32	0.4	14.15	8.15	10.15	MEE3S0512SC	MEE3		
																				0.4	0.77	0.3	10.2	19.7	7.7	MEV3S0512SC	MEV3		
																				0.58	1.27	0.28	14.7	32.3	7	NDTS0512C	NDTS		
																			0.58	1.27	0.28	14.7	32.3	7	NDY0512C	NDY			
																			0.56	0.32	0.4	14.15	8.15	10.15	MEE3S1212SC	MEE3			
																			0.4	0.77	0.3	10.2	19.7	7.7	MEV3S1212SC	MEV3			
																			0.58	1.27	0.28	14.7	32.3	7	NDTS1212C	NDTS			
																			0.58	1.27	0.28	14.7	32.3	7	NDY1212C	NDY			
																			0.58	1.27	0.28	14.7	32.3	7	NDTS2412C	NDTS			
																			0.58	1.27	0.28	14.7	32.3	7	NDY2412C	NDY			
																			0.58	1.27	0.28	14.7	32.3	7	NDTS4812C	NDTS			
																			0.58	1.27	0.28	14.7	32.3	7	NDY4812C	NDY			

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information							
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to data-sheets for available options.	Datasheet Available at www.murata-ps.com						
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H					
12V	0.5A	6W	5V	4.5V	9V	5.2kV	82%												1.26	0.787	0.423	32	20	10.75	NCM6S0512C	NCM6			
			12V	9V	36V		86%													1.26	0.787	0.423	32	20	10.75		NCM6S1212C		
						1.5kV	84%													1.26	0.79	0.39	32	20	10		NCS6S1212C		
			24V	18V	36V	1.5kV	87%													1.26	0.79	0.39	32	20	10		NDS6S2412C		
			48V	18V	75V	5.2kV	82%													1.26	0.787	0.423	32	20	10.75		NCM6S4812C		
						1.5kV	84%												1.26	0.79	0.39	32	20	10	NCS6S4812C	NCS6			
	0.83A	10W	24V	18V	36V	1.5kV	86%												0.98	1.26	0.39	25	32	10	NPH10S2412EIC	NPH10S			
						86%													0.98	1.26	0.39	25	32	10	NPH10S2412IC				
	1A	12W	12V	9V	36V	1.5kV	84.5%												1.26	0.787	0.394	32	20	10	NCS12S1212C	NCS12			
			48V	18V	75V		84.5%													1.26	0.787	0.394	32	20	10		NCS12S4812C		
	1.25A	15W	24V	18V	36V	1.5kV	86%												0.98	1.97	0.39	25	50	10	NPH15S2412EIC	NPH15S			
						86%														0.98	1.97	0.39	25	50	10		NPH15S2412IC		
			48V	36V	75V	1.5kV	88%													0.98	1.97	0.39	25	50	10	NPH15S4812EIC	NPH15S		
			N/A	16V	160V	4kV	78%												2	2	0.79	50.8	50.8	20	RUW15SL12C	RUW15			
						77%													2	2	0.79	50.8	50.8	20	RUW15SL12HC				
	1.3A	15.6W	24V	9V	36V	1.6kV													1	1	0.41	25.4	25.4	10.4	SPM15-120-Q12	SPM15			
						2.25kV	84.5%													0.96	0.32	1.1	24.4	8.1	27.9		UEI15-120-Q12		
			48V	18V	75V	1.6kV														1	1	0.41	25.4	25.4	10.4	SPM15-120-Q48	SPM15		
						2.25kV	85%												0.96	0.32	1.1	24.4	8.1	27.9	UEI15-120-Q48	UEI15			
	2.10A	25.2W	48V	36V	75V	1.6kV	87%												1	1	0.41	25.4	25.4	10.4	SPM25-120-D48	SPM25			
						2.25kV	87.5%															1.1	0.32	0.96	27.9		8.13	24.4	UEI25-120-D48
	2.5A	30W	12V	9V	18V	1.5kV	89%												2	1.6	0.4	50.8	40.6	10.2	UHE-12/2500-D12-C	UHE 12-30W			
			24V	9V	36V		87.5%													2	1.6	0.4	50.8	40.6	10.2		UHE-12/2500-Q12-C		
				18V	36V		90%														2	1.6	0.4	50.8	40.6		10.2	UHE-12/2500-D24-C	
				9V	36V	2.25kV	89%													1.92	0.35	0.92	48.8	8.9	23.4	UEI30-120-Q12P-C	UEI30		
			48V	18V	75V	1.5kV	90.5%													2	1.6	0.4	50.8	40.6	10.2	UHE-12/2500-Q48-C	UHE 12-30W		
				36V	75V	1.5kV	92%													2	1.6	0.4	50.8	40.6	10.2	UHE-12/2500-D48-C			
				18V	75V	2.25kV	89%														1.92	0.35	0.92	48.8	8.9	23.4	UEI30-120-Q48N-C	UEI30	
			4.2A	50.4W	24V	9V	36V	2.25kV	87.7%												0.9	1.3	0.36	22.9	33.02	9.14	ULT-12/2.5-D48	ULT	
						18V	36V	2kV	91%													2.3	0.9	0.41	58.4	22.9	10.4		ULE-12/4.2-D24P-C
						36V	75V	2.25kV	92%													2.3	0.9	0.41	58.4	22.9	10.4		ULE-12/4.2-D48N-C
	4.5A	54W	48V	18V	75V	2.25kV	91%											0.91	1.31	0.36	23.1	33.27	9.14	UWS-12/4.5-Q48	UWS				
	5A	60W	36V	75V	2.25kV	89.8%												1.95	1.55	0.375	49.5	39.4	9.5	UEI-12/5-Q48N-C	UEI-50/60				
				91%																1.3	0.4	0.9	33.02	10.16		22.86	ULS-12/5-D48N-C		
	6A	72W	12V	9V	36V	2.25kV	91.5%											2.3	0.38	0.9	58.4	9.7	22.9	UWE-12/6-Q12P-C	UWE				
			48V	18V	75V	91%												2.3	0.38	0.9	58.4	9.7	22.9	UWE-12/6-Q48N-C					
	8A	96W	12V	9V	36V	2kV	89%												2.22	1.45	0.43	56.4	36.8	10.9	UQQ-12/8-Q12P-C	UQQ7-15A			
			24V	18V	90%															2.3	1.45	0.42	58.4	36.8	10.7		UVQ-12/8-D24P-C		
				75V	2.25kV		88.5%														2.22	1.45	0.43	56.4	36.8		10.9	UQQ-12/8-Q48N-C	
	8.3A	99.6W	36V	75V	2.25kV	92%												1.3	0.9	0.4	33	22.9	10.2	ULS-12/8.3-D48	ULS-100W				
10A	120W	18V	75V	2.25kV	91.5%												2.3	0.9	0.39	58.4	22.9	9.9	UWE-12/10-Q48-C	UWE-100-120W					
			93%															2.3	1.45	0.42	58.4	36.8	10.7		UVQ-12/10-D48N-C				
12.5A	150W	48V	36V	75V	2.25kV	93%											2.3	0.9	0.4	58.4	22.9	10.2	UEE-12/12.5-D48	UEE 150W					
17A	204W	18V	75V	2.25kV	92%												2.3	1.45	0.46	58.4	36.8	11.7	UWQ-12/17-Q48	UWQ					
20A	234W	36V	75V		94.5%												2.3	0.9	0.4	58.4	22.9	10.2	RBE-12/20-D48	RBE					
25A	300W	36V	75V		93.5%													2.3	1.45	0.44	58.4	36.8	11.2	HPQ-12/25-D48	HPQ				
33A	391W				96%														2.3	1.45	0.5	58.4	36.8	12.7	RBQ-12/33-D48	RBQ			
15V	0.016A	0.25W	5V		4.5V	5.5V	1kV	75%											0.39	0.45	0.27	9.8	11.5	6.8	LME0515DC	LME			
			12V	10.8V	13.2V	1kV	75%											0.24	0.45	0.39	6	11.48	10	LME0515SC					
																		0.39	0.45	0.27	9.8	11.5	6.8	LME1215DC					
																		0.24	0.45	0.39	6	11.48	10	LME1215SC					
	0.067A	1W	3.3V	2.97V	3.63V	1kV	82%											0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0315DC	MEE1				
							81%															0.24	0.45	0.39		6	11.5	10	MEE1S0315SC
																	0.327	0.240	0.313	8.3	6.1	7.95	MEU1S0315ZC	MEU1					

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information												
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to data-sheets for available options.</small>	Datasheet Available at www.murata-ps.com											
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H										
15V	0.067A	1W	3.3V	2.97V	3.63V	1kV	86%											0.5	0.43	0.27	12.7	11	7.05	MTE1S0315MC	MTE1									
							77%															0.30	0.5	0.26	7.7	12.7	6.6	NTE0315MC	NTE					
			5V	4.5V	5.5V	1kV	83%													0.39	0.45	0.27	9.8	11.5	6.8	MEE1S0515DC	MEE1							
							87.5%															0.24	0.45	0.39	6	11.5	10	MEE1S0515SC	MEE1					
							83%																0.24	0.77	0.39	6	19.5	10	MER1S0515SC	MER1				
							88%																0.327	0.240	0.313	8.3	6.1	7.95	MEU1S0515ZC	MEU1				
							87%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S0515MC	MTE1			
							80%																	0.323	0.331	0.335	8.2	8.4	8.5	MTU1S0515MC	MTU1			
							79%																	0.39	0.45	0.28	9.8	11.5	6.8	NME0515DC	NME			
							78%																	0.24	0.77	0.39	6	11.48	10	NME0515SC	NME			
							78%																	0.24	0.77	0.39	6	19.5	10	NMR102C	NMR			
							87.5%																	0.30	0.5	0.26	7.7	12.7	6.6	NTE0515MC	NTE			
			3kV	4.75V	5.25V	1kV	87.5%														0.39	0.77	0.27	9.8	19.5	6.8	MEV1S0515DC	MEV1						
							78%															0.24	0.77	0.39	6	19.5	10	MEV1S0515SC	MEV1					
							78%																0.39	0.45	0.21	9.8	11.5	5.4	NKE0515DC	NKE				
							78%																0.236	0.45	0.29	6	11.48	7.5	NKE0515SC	NKE				
			5.2kV	11.4V	12.6V	1kV	78%														0.39	0.77	0.26	9.8	19.5	6.8	NMV0515DAC	NMV						
							75%																0.24	0.77	0.39	6	19.5	10	NMV0515SAC	NMV				
			12V	10.8V	13.2V	1kV	75%														0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S0515SC	MEJ1						
							71%																0.39	0.77	0.49	9.8	19.5	12.5	NMJ0515SAC	NMJ				
							62%																	0.39	0.77	0.27	9.8	19.5	6.8	NMF0515DC	NMF			
							81%																	0.24	0.77	0.39	6	19.5	10	NMF0515SC	NMF			
							88%																	0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1215DC	MEE1			
							87%																	0.24	0.45	0.39	6	11.5	10	MEE1S1215SC	MEE1			
							88%																	0.24	0.77	0.39	6	19.5	10	MER1S1215SC	MER1			
							88%																	0.327	0.240	0.313	8.3	6.1	7.95	MEU1S1215ZC	MEU1			
							88%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S1215MC	MTE1			
							75%																	0.323	0.331	0.335	8.2	8.4	8.5	MTU1S1215MC	MTU1			
							75%																		0.39	0.45	0.27	9.8	11.5	6.8	NME1215DC	NME		
							75%																		0.24	0.45	0.39	6	11.5	10	NME1215SC	NME		
							76%																		0.24	0.77	0.39	6	19.5	10	NMR108C	NMR		
							75%																		0.30	0.5	0.26	7.7	12.7	6.6	NTE1215MC	NTE		
							15V	13.5V	16.5V	1kV	88%														0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1215DC	MEV1		
											81%																0.24	0.77	0.39	6	19.5	10	MEV1S1215SC	MEV1
											81%																0.39	0.45	0.21	9.8	11.5	5.4	NKE1215DC	NKE
											77%																0.24	0.45	0.29	6	11.48	7.46	NKE1215SC	NKE
			77%																					0.39	0.77	0.27	9.8	19.5	6.8	NMV1215DAC	NMV			
			77%																					0.24	0.77	0.39	6	19.5	10	NMV1215SAC	NMV			
			77%																					0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1215SC	MEJ1			
			74%																					0.39	0.77	0.49	9.8	19.5	12.5	NMJ1215SAC	NMJ			
			62%																						0.39	0.77	0.27	9.8	19.5	6.8	NMF1215DC	NMF		
			62%																						0.24	0.77	0.39	6	19.5	10	NMF1215SC	NMF		
			24V	21.6V	26.4V	1kV	83%														0.39	0.45	0.27	9.8	11.5	6.8	MEE1S1515DC	MEE1						
							89%																0.24	0.45	0.39	6	11.5	10	MEE1S1515SC	MEE1				
							88%																0.24	0.77	0.39	6	19.5	10	MER1S1515SC	MER1				
							75%																	0.5	0.43	0.27	12.7	11	7.05	MTE1S1515MC	MTE1			
							76%																	0.24	0.45	0.39	6	11.48	10	NME1515SC	NME			
							89%																	0.24	0.77	0.39	6	19.5	10	NMR114C	NMR			
77%																					0.39	0.77	0.27	9.8	19.5	6.8	MEV1S1515DC	MEV1						
77%																					0.24	0.77	0.39	6	19.5	10	MEV1S1515SC	MEV1						
76.5%																					0.24	0.77	0.39	6	19.5	10	NMV1515SAC	NMV						
76.5%																					0.77	0.390	0.50	19.5	9.95	12.65	MEJ1S1515SC	MEJ1						
24V	21.6V	26.4V	1kV	78%														0.39	0.45	0.27	9.8	11.5	6.8	MEE1S2415DC	MEE1									
				87.5%																0.24	0.45	0.39	6	11.5	10	MEE1S2415SC	MEE1							
				88%																0.24	0.77	0.39	6	19.5	10	MER1S2415SC	MER1							
				80%																0.5	0.43	0.27	12.7	11	7.05	MTE1S2415MC	MTE1							
																	0.39	0.45	0.27	9.8	11.5	6.8	NME2415DC	NME2										
																	0.24	0.45	0.39	6	11.5	10	NME2415SC	NME2										

Single output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style								Package Dimensions						Further Information						
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks								Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to data-sheets for available options.	Datasheet Available at www.murata-ps.com					
								1/32	1/16	1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H				
15V	3.3A	49.5W	24V	9V	36V	2.25kV	90%											1.95	1.55	0.375	49.5	39.4	9.5	UEI-15/3.3-Q12P-C	UEI-50/60			
	4A	60W	48V	18V	75	2.25kV	89.3%											1.95	1.55	0.375	49.5	39.4	9.5	UEI-15/4-Q48N-C				
	5A	75W	12V	9V	36	2.25kV	91.5%											2.3	0.38	0.9	58.4	9.7	22.9	UWE-15/5-Q12P-C	UWE			
	7A	105W	12V	9V	36V	2kV	90.5%											2.22	1.45	0.43	56.4	36.8	10.9	UQQ-15/7-Q12P-C	UQQ7-15A			
			24V	18V	36V	2kV	93%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-15/7-D24P-C	UVQ			
			48V	36V	75V	2.25kV	94%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-15/7-D48N-C				
18V	5.6A	100.8W	24V	18V	36V	2kV	90%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-18/5.6-D24P-C	UVQ			
	6A	108W	48V	36V	75V	2.25kV	93%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-18/6-D48N-C				
24V	0.042A	1W	5V	4.5V	5.5V	1kV	80%											0.39	0.45	0.27	9.8	11.5	6.8	NME0524DC	NME			
							80%															0.24	0.45	0.39		6	11.5	10
	0.083A	2W	N/A	16V	160V	4kV	80%											0.77	0.236	0.394	19.5	6	10	MMV1S05245C	MMV1			
							78%														2	2	0.79	50.8	50.8	20	RUW15SL24C	RUW15
	0.625A	15W	N/A	16V	160V	4kV	77%										2	2	0.79	50.8	50.8	20	RUW15SL24HC					
							89.5%															2.3	0.38	0.9	58.4	9.7	22.9	UWE-24/3-Q12P-C
	3A	72W	12V	9V	36V	2.25kV	94%											2.3	0.9	0.41	58.4	22.9	10.4	ULE-24/3-D48N-C	ULE20A			
			48V	36V	75V	2.25kV	94%											2.3	0.9	0.41	58.4	22.9	10.4	ULE-24/3-D48N-C				
	4A	96W	12V	9V	36V	2kV	89%											2.22	1.45	0.43	56.4	36.8	10.9	UQQ-24/4-Q12P-C	UQQ 7-15A			
			24V	18V	36V	2kV	94%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-24/4.5-D24P-C	UVQ			
4.5A	108W	24V	18V	36V	2kV	94%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-24/4.5-D24P-C					
		48V	36V	75V	2.25kV	94%											2.3	1.45	0.42	58.4	36.8	10.7	UVQ-24/4.5-D48N-C					
28V	12.5A	350W	48V	36V	75V	2.25kV	93%											2.3	2.4	0.5	58.4	60.9	12.7	PAH-28/12.5-D48	PAH-28V, 350W			
	16A	450W					93.5%														2.3	2.4	0.5	58.4	60.9	12.7	PAH-28/16-D48	PAH-28V, 450W
29V	5	150W	48V	36V	75V	2.25kV	92.5%											2.3	1.45	0.46	58.4	36.8	11.7	PAQ-29/5-D48-C	PAQ			
29.8V	3.3A	98.34W	48V	36V	75V	1.5kV	92.5%											2.3	0.9	0.44	58.4	22.9	11.1	PAE-29/3-D48	PAE			
48V	1.25A	60W	48V	36V	75V	2.25kV	92.5%											2.3	0.9	0.41	58.4	22.9	10.4	ULE-48/1.25-D48N-C	ULE20A			
	2.5A	120W					91.5%														2.3	1.45	0.42	58.4	36.8	10.7	UVQ-48/2.5-D48N-C	UVQ
	8.5A	408W					94%														2.3	2.4	0.5	58.4	60.9	12.7	PAH-48/8.5-D48	PAH-53V, 450W
53V	8.5A	450W	48V	36V	75V	2.25kV	94%											2.3	2.4	0.5	58.4	60.9	12.7	PAH-53/8.5-D48	PAH-53V, 450W			
54V	3A	162W	48V	18V	72V	2.25kV	91.5%											2.4	2.3	0.43	61.0	58.4	10.92	EMH-54/3-Q48N-C	EMH			
96V	0.10	9.600	48V	36V	75V	1.5kV	88%											2	1	0.4	50.8	25.4	10.2	UWR-96/100-D48A-C	UWR-96-100			

Dual output bipolar

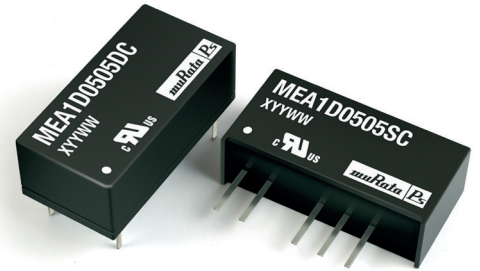
Dual output

Bipolar isolated DC-DC converters

For analog/linear and other applications requiring bipolar/symmetric rail voltages, Murata Power Solutions' isolated duals generate $\pm 3.3V$, $\pm 5V$, $\pm 12V$ or $\pm 15V$ outputs from a single input voltage. Not surprisingly, our offering is the industry's broadest.

We offer bipolar duals with output power ranges from 0.75 to 20 Watts, input voltage ranges from 3 to 75 Volts, and package styles from sub-miniature SIPs, DIPs and SMDs to traditional 2" x 2" (51

x 51mm) through-hole devices. Isolation voltages run as high as 8,000Vdc. When relevant, all products offer UL/EN safety certifications, CE marks, and EMI/EMC testing.



If your available voltage is anywhere between 3.3 and 75 Volts and your need is $\pm 3.3V$, $\pm 5V$, $\pm 12V$ or $\pm 15V$ at moderate power levels – in a small area – we've got your solution.

Quick selection guide Listed by output power

Power	Vout					Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	
<1W						CMR
1W						MEA1
						MEJ1
						MEV1
						MTU1
						NKA
						NMA
						NMJ
						NMV
						NTA
						NTV
1.5W						PWR13XXC
						PWR1726AC

Power	Vout					Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	
2W						MEJ2
						MTU2
						NMH
						NMK
						NMS
						NTH
3W						NDH
						NDTD
						PWR70C

Power	Vout					Series
	$\pm 3.3V$	$\pm 5V$	$\pm 9V$	$\pm 12V$	$\pm 15V$	
5W						PWR1546AC
6W						NCM6
						NCS6
						NDS6
12W						NCS12
15W						BEI

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions			Further Information				
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks		SM	TH	DIP	SIP	Inches			mm			Part Number <small>Note: Root part numbers may be shown. Please refer to datasheets for available options.</small>	Datasheet Available at www.murata-ps.com
						1/8	1/4	L	W					H	L	W	H				
$\pm 3.3V$	$\pm 0.152A$	1W	3.3V	2.97V	3.63V	1kV	75%						0.3	0.6	0.26	7.7	15.2	6.6	NTA0303MC	NTA	
						3kV	74%						0.23	0.65	0.3	6.0	16.6	7.6	NKA0303DC	NKA	
			5V	4.5V	5.5V	1kV	77%							0.3	0.6	0.26	7.7	15.2	6.6	NTA0503MC	NTA
						3kV	77%						0.23	0.65	0.3	6	16.6	7.6	NKA0503DC	NKA	
			12	10.8V	13.2V	5.2kV	70%							0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D0503SC	MEJ1
						5.2kV	73%						0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1203SC	MEJ1	
	$\pm 0.303A$	2W	5V	4.5V	5.5V	5.2kV	71%						0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0503SC	MEJ2	
						5.2kV	75%						0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1203SC	MEJ2	
			12	10.8V	13.2V	1kV	67%							0.58	1.27	0.27	14.7	32.3	7.0	NDTD0503C	NDTD
						1kV	73%						0.58	1.27	0.27	14.7	32.3	7.0	NDTD1203C		
			1kV	73%							0.58	1.27	0.27	14.7	32.3	7.0	NDTD2403C				
			1kV	72%							0.58	1.27	0.27	14.7	32.3	7.0	NDTD4803C				
$\pm 5V$	$\pm 0.1A$	1W	3.3V	2.97V	3.63V	1kV	83%						0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0305MC	MTU1	
							78%						0.30	0.60	0.26	7.7	15.2	6.6	NTA0305MC	NTA	
						3kV	79%						0.39	0.77	0.21	9.8	19.5	5.4	NKA0305DC	NKA	
							79%						0.23	0.65	0.30	6.0	16.6	7.6	NKA0305SC		

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information	
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks			SM	TH	DIP	SIP	Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com
								1/8	1/4	1/2					L	W	H	L	W	H		
±5V	±0.1A	1W	5V	4.5V	5.5V	1kV	85%					0.39	0.77	0.27	9.8	19.5	6.8	MEA1D0505DC	MEA1			
											0.24	0.77	0.39	6.0	19.5	10.0	MEA1D0505SC					
							84%				0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0505MC	MTU1				
							69%				0.39	0.77	0.27	9.8	19.5	6.8	NMA0505DC	NMA				
											0.24	0.77	0.39	6.0	19.5	10.0	NMA0505SC					
						69%				0.30	0.60	0.26	7.7	15.2	6.6	NTA0505MC	NTA					
						80%				0.30	0.60	0.26	7.7	15.2	6.6	NTA0505MEC						
						3kV	85%				0.39	0.77	0.27	9.8	19.5	6.8	MEV1D0505DC	MEV1				
											0.24	0.77	0.39	6	19.5	10	MEV1D0505SC					
							70%				0.39	0.77	0.21	9.8	19.5	5.4	NKA0505DC	NKA				
			80%					0.39	0.77	0.21	9.8	19.5	5.4	NKA0505DEC								
			70%					0.23	0.65	0.30	6.0	16.6	7.6	NKA0505SC								
			5.2kV	80%				0.23	0.65	0.30	6.0	16.6	7.6	NKA0505SEC	NMV							
				71.5%				0.39	0.77	0.27	9.8	19.5	6.8	NMV0505DC								
								0.24	0.77	0.39	6.0	19.5	10.0	NMV0505SC								
				71%				0.30	0.60	0.26	7.7	15.2	6.6	NTV0505MC								
				72%				0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D0505SC		MEJ1						
			12V	10.8V	13.2V	1kV	85%				0.323	0.331	0.335	8.2	8.4	8.5	MTU1D1205MC	MTU1				
							84.5%				0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1205DC	MEA1				
							85%				0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1205SC					
							69%				0.39	0.77	0.27	9.8	19.5	6.8	NMA1205DC	NMA				
						69%				0.24	0.77	0.39	6.0	19.5	10.0	NMA1205SC						
	3kV	85%							0.39	0.77	0.27	9.8	19.5	6.8	MEV1D1205DC	MEV1						
									0.24	0.77	0.39	6	19.5	10	MEV1D1205SC							
		74%							0.39	0.77	0.21	9.8	19.5	5.4	NKA1205DC	NKA						
							0.23	0.65	0.30	6.0	16.6	7.6	NKA1205SC									
	71%					0.39	0.77	0.27	9.8	19.5	6.8	NMV1205DC	NMV									
	73%					0.24	0.77	0.39	6.0	19.5	10.0	NMV1205SC										
	5.2kV	75.5%					0.30	0.60	0.26	7.7	15.2	6.6	NTV1205MC	NTV								
		60%					0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1205SC		MEJ1							
							0.39	0.77	0.49	9.8	19.5	12.5	NMJ0505SC	NMJ								
	15V	13.5V		16.5V	1kV	84%				0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1505DC	MEA1					
									0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1505SC							
			71%					0.39	0.77	0.27	9.8	19.5	6.8	NMA1505DC	NMA							
								0.24	0.77	0.39	6.0	19.5	10.0	NMA1505SC								
			3kV		84.5%				0.39	0.77	0.27	9.8	19.5	6.8	MEV1D1505DC	MEV1						
		69					0.24	0.77	0.39	6	19.5	10	MEV1D1505SC									
		75%					0.24	0.77	0.39	6.0	19.5	10.0	NMV1505SC	NMV								
						0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1505SC	MEJ1									
		24V	21.6V	26.4V	1kV	84.5				0.39	0.77	0.27	9.8	19.5	6.8	MEA1D2405DC	MEA1					
										0.24	0.77	0.39	6.0	19.5	10.0	MEA1D2405SC						
	3kV				84%				0.39	0.77	0.27	9.8	19.5	6.8	MEV1D2405DC	MEV1						
									0.24	0.77	0.39	6	19.5	10	MEV1D2405SC							
76.5%								0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D2405SC	MEJ1							
48V	43.2V	52.8V	1kV	80%				0.24	0.77	0.39	6.0	19.5	10.0	MEA1D4805DC	MEA1							
			3kV	80				0.24	0.77	0.39	6	19.5	10	MEV1D4805DC								
±0.15A	1.5W	5V	4.5V	5.5V	8kV	75%					1.27	0.81	0.4	32.3	20.5	10.2	PWR1303AC	PWR13XXC				
					12V	10V	13.2V	8kV	75%					1.27	0.81	0.4	32.3		20.5	10.2	PWR1309AC	
						82%						0.323	0.331	0.335	8.2	8.4	8.50		MTU2D0505MC	MTU2		
						1kV	80%					0.39	0.77	0.30	9.8	19.5	7.7		NMH0505DC	NMH		
						1kV	80%					0.30	0.77	0.40	7.5	19.5	10.0	NMH0505SC				
		±0.2A	2W	5V	4.5V	5.5V	1kV	80%					0.50	0.70	0.21	12.7	17.8	6.0	NTH0505MC	NTH		
	3kV						83%							0.30	0.77	0.4	7.5	19.5	10		NMK0505SC	
	5.2kV						76%							0.5	0.77	0.39	12.7	19.7	10.0		MEJ2D0505SC	MEJ2
	12V			10.8V	13.2V	1kV	80%							0.58	1.28	0.37	14.7	32.6	9.4	NMS0505SC	NMS	
														0.39	0.77	0.30	9.8	19.5	7.7	NMH1205DC		
						1kV	80%							0.30	0.77	0.40	7.5	19.5	10.0	NMH1205SC		
											0.50	0.70	0.21	12.7	17.8	6.0	NTH1205MC	NTH				

Dual output bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information									
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks							Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com								
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W	H										
+5V	±0.2A	2W	12V	10.8V	13.2V	3kV	84%											0.30	0.77	0.4	7.5	19.5	10	NMK1205SC	NMK					
						5.2kV	79%												0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1205SC	MEJ2				
						6kV	78%												0.58	1.28	0.37	14.7	32.6	9.4	NMS1205C	NMS				
			15V	13.5V	16.5V	3kV	84%													0.30	0.77	0.4	7.5	19.5	10	NMK1505SC	NMK			
						5.2kV	78%												0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1505SC	MEJ2				
						1kV	81%												0.39	0.77	0.30	9.8	19.5	7.7	NMH2405DC	NMH				
		24V	21.6V	26.4V	1kV	81%													0.30	0.77	0.40	7.5	19.5	10.0	NMH2405SC	NMH				
					3kV	84%												0.30	0.77	0.4	7.5	19.5	10	NMK2405SC	NMK					
					48V	43V	52.8V	1kV	82%										0.39	0.77	0.303	9.8	19.5	7.7	NMH4805DC	NMH				
					43.2V	52.8V	1kV	82%										0.3	0.77	0.4	7.5	19.5	10.0	NMH4805SC	NMH					
					±0.3A	3W	12V	9V	18V	1kV	75%											0.58	1.27	0.27	14.7	32.3	7	NDTD1205C	NDTD	
											78%												0.58	1.27	0.27	14.7	32.3	7		NDTD2405C
	±0.6A	6W	5V	4.5V	9V	5.2kV	80%												1.26	0.787	0.423	32	20	10.75	NCM6D0505C	NCM6				
							83%												1.26	0.787	0.423	32	20	10.75	NCM6D1205C					
							82%													1.26	0.79	0.39	32	20	10		NCS6D1205C			
							83%													1.26	0.79	0.39	32	20	10		NDS6D2405C			
							80%														1.26	0.787	0.423	32	20		10.75	NCM6D4805C		
							80%														1.26	0.79	0.39	32	20		10	NCS6D4805C		
	±1.2A	12W	12V	9V	36V	1.5kV	81.5%											1.26	0.787	0.394	32	20	10	NCS12D1205C	NCS12					
							80%												1.26	0.787	0.394	32	20	10		NCS12D4805C				
	±1.5A	15W	24V	9V	36V	2.25kV	84%											1.1	0.35	0.96	27.9	8.9	24.4	BEI15-050-Q12	BEI15-Series					
							83.5%												1.1	0.35	0.96	27.9	8.9	24.4		BEI15-050-Q48				
	+9V	±0.055A	1W	3.3V	2.97V	3.63V	3kV	75%											0.39	0.77	0.21	9.8	19.5	5.4	NKA0309DC	NKA				
																					0.23	0.65	0.3	6	16.6		7.6	NKA0309SC		
																				0.3	0.6	0.26	7.7	15.2	6.6		NTA0309MC			
5V				4.5V	5.5V	1kV	86.7													0.39	0.77	0.27	9.8	19.5	6.8	MEA1D0509DC	MEA1			
							86.5													0.24	0.77	0.39	6.0	19.5	10.0	MEA1D0509SC				
							75%													0.39	0.77	0.27	9.8	19.5	6.8	NMA0509DC				
							75%													0.24	0.77	0.39	6	19.5	10	NMA0509SC				
																					0.3	0.6	0.26	7.7	15.2	6.6		NTA0509MC		
																					0.39	0.77	0.21	9.8	19.5	5.4		NKA0509DC		
						3kV	76%														0.23	0.65	0.3	6	16.6	7.6	NKA0509SC			
							76%														0.39	0.77	0.27	9.8	19.5	6.8	NMV0509DC			
																					0.24	0.77	0.39	6	19.5	10	NMV0509SC			
			77%																	0.3	0.6	0.26	7.7	15.2	6.6	NTV0509MC				
			74%																	0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D0509SC				
			65%																	0.39	0.77	0.49	9.8	19.5	12.5	NMJ0509SC				
12V			10.8V	13.2V	1kV	86.5													0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1209DC	MEA1				
																			0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1209SC					
						74%													0.39	0.77	0.27	9.8	19.5	6.8	NMA1209DC					
																				0.24	0.77	0.39	6	19.5	10.0		NMA1209SC			
						79%														0.39	0.77	0.21	9.8	19.5	5.4		NKA1209DC			
																				0.23	0.65	0.30	6	16.6	7.6		NKA1209SC			
					5.2kV	77%														0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1209SC				
						65%														0.39	0.77	0.49	9.8	19.5	12.5	NMJ1209SC				
						±0.056A	5	4.5	5.5	1kV	74%												0.3	0.6	0.26	7.7	15.2	6.6	NTA1209MC	NTA
		74%																					0.39	0.77	0.27	9.8	19.5	6.8	NMV1209DC	
		74%																					0.24	0.77	0.39	6	19.5	10	NMV1209SC	
		79%																					0.3	0.6	0.26	7.7	15.2	6.6	NTV1209MC	
15V		13.5V	16.5V	1kV	87%																0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1509DC	MEA1		
																					0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1509SC			
				5.2kV	76.5%												0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1509SC							
24V		21.6V	26.4V	1kV	87%												0.39	0.77	0.27	9.8	19.5	6.8	MEA1D2409DC	MEA1						
																	0.24	0.77	0.39	6.0	19.5	10.0	MEA1D2409SC							
				5.2kV	78%												0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D2409SC							
48V		43.2V	52.8V	1kV	82%												0.24	0.77	0.39	6.0	19.5	10.0	MEA1D4809SC	MEA1						
				±0.056A	5	4.5	5.5	1kV	86%										0.323	0.331	0.335	8.2	8.4		8.5	MTU1D0509MC	MTU1			
									87%												0.39	0.77	0.27		9.8	19.5		6.8	MEV1D0509DC	
																0.24	0.77	0.39	6	19.5	10	MEV1D0509SC								

Dual output bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information												
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks						Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com											
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H										
+12V	±0.042A	1W	12V	10.8V	13.2V	5.2kV	76.5%											0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1212SC	MEJ1							
							65%																0.39	0.77	0.49	9.8	19.5	12.5	NMJ1212SC	NMJ		
							87.5%																	0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1512DC	MEA1	
			78%																	0.39	0.77	0.27	9.8	19.5	6.8	NMA1512DC						
			15V	13.5V	16.5V	1kV	88%														0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1512SC	NMA				
							75%																0.24	0.77	0.39	6.0	19.5		10.0	NMA1512DC		
							5.2kV	77%																0.77	0.390	0.50	19.5	9.95	12.65	MEV1D1512SC	MEV1	
						3kV	88%																	0.39	0.77	0.27	9.8	19.5	6.8	MEV1D1512DC	MEV1	
							75%																	0.24	0.77	0.39	6.0	19.5	10.0	NMV1512SC		
							5.2kV	77%																	0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1512SC	MEJ1
			24V	21.6V	26.4V	1kV	87%															0.39	0.77	0.27	9.8	19.5	6.8	MEA1D2412DC	MEA1			
							88%																0.39	0.77	0.27	9.8	19.5	6.8		MEV1D2412DC		
	5.2kV	78%																				0.77	0.390	0.50	19.5	9.95	12.65	MEV1D2412SC	MEV1			
	48V	43.2V	52.8V	1kV	83%															0.39	0.77	0.27	9.8	19.5	6.8	MEA1D4812SC	MEA1					
					3kV	84%																0.24	0.77	0.39	6.0	19.5	10.0	MEV1D4812SC	MEV1			
	±0.063A	1.5W	5V	4.5V	5.5V	8kV	75%												1.27	0.81	0.4	32.3	20.5	10.2	PWR1304AC	PWR13XXC						
			12V	10.8V	13.2V	8kV	75%													1.27	0.81	0.4	32.3	20.5	10.2		PWR1310AC					
	±0.083A	2W	5V	4.5V	5.5V	1kV	85%													0.323	0.331	0.335	8.2	8.4	8.50	MTU2D0512MC	MTU2					
							82%																0.39	0.77	0.3	9.8	19.5	7.7	NMH0512DC	NMH		
							82%																	0.5	0.7	0.21	12.7	17.8	6.0	NTH0512MC	NTH	
							3kV	87%																0.30	0.77	0.4	7.5	19.5	10.0	NMK0512SC	NMK	
							6kV	77%																	0.58	1.28	0.37	14.7	32.6	9.4	NMS0512C	NMS
							83%																		0.323	0.331	0.335	8.2	8.4	8.50	MTU2D1212MC	MTU2
			12V	10.8V	13.2V	1kV	84%															0.39	0.77	0.30	9.8	19.5	7.7	NMH1212DC	NMH			
84%																						0.3	0.77	0.4	7.5	19.5	10.0	NMH1212SC	NMH			
84%																							0.5	0.7	0.21	12.7	17.8	6.0	NTH1212MC	NTH		
3kV						87%																0.30	0.77	0.4	7.5	19.5	10.0	NMK1212SC	NMK			
6kV						82%																	0.58	1.28	0.37	14.7	32.6	9.4	NMS1212C	NMS		
83%																							0.323	0.331	0.335	8.2	8.4	8.50	MTU2D1212MC	MTU2		
15V			13.5V	16.5V	3kV	88%															0.30	0.77	0.4	7.5	19.5	10.0	NMK1512SC	NMK				
						24V	21.6V	26.4V	1kV	86%												0.39	0.77	0.3	9.8	19.5	7.7	NMH2412DC	NMH			
						24V	21.6V	26.4V	3kV	89%													0.30	0.77	0.4	7.5	19.5	10.0	NMK2412SC	NMK		
48V			43.2V	52.8V	1kV	85%															0.39	0.77	0.3	9.8	19.5	7.7	NMH4812DC	NMH				
						85%																0.3	0.77	0.4	7.5	19.5	10.0	NMH4812SC	NMH			
						85%																	0.3	0.77	0.4	7.5	19.5	10.0	NMH4812SC	NMH		
±0.13A	3W	5V	4.5V	9V	1kV	76%												0.58	1.27	0.27	14.7	32.3	7.0	NDTD0512C	NDTD							
		12V	9V	18V		78%													0.58	1.27	0.27	14.7	32.3	7.0	NDTD1212C	NDTD						
		24V	18V	36V		81%													0.36	1.02	0.49	9.3	26.0	12.5	NDH2412SC	NDH						
		48V	36V	75V		80%													0.58	1.27	0.27	14.7	32.3	7.0	NDTD2412C	NDTD						
±0.25A	6W	5V	4.5V	9V	5.2kV	83%												1.26	0.787	0.423	32.0	20.0	10.75	NCM6D0512C	NCM6							
		12V	9V	36V	5.2kV	88%													1.26	0.787	0.423	32.0	20.0	10.75		NCM6D1212C						
		24V	18V	36V	1.5kV	87%													1.26	0.79	0.39	32.0	20.0	10.0	NCS6D1212C	NCS6						
		48V	18V	75V	5.2kV	82%													1.26	0.787	0.423	32.0	20.0	10.75	NDS6D2412C	NDS6						
		48V	18V	75V	1.5kV	84%													1.26	0.79	0.39	32.0	20.0	10.0	NCM6D4812C	NCM6						
		48V	18V	75V	1.5kV	84%													1.26	0.79	0.39	32.0	20.0	10.0	NCS6D4812C	NCS6						
±0.5	12W	12V	9V	36V	1.5kV	85%												1.26	0.787	0.394	32.0	20.0	10.0	NCS12D1212C	NCS12							
		48V	18V	75V	1.5kV	85%												1.26	0.787	0.394	32.0	20.0	10.0	NCS12D4812C								
±0.625A	15W	24V	9V	36V	2.25kV	86%												1.1	0.35	0.96	27.9	8.9	24.4	BEI15-120-Q12	BEI15-Series							
		48V	18V	75V	2.25kV	85.5%												1.1	0.35	0.96	27.9	8.9	24.4	BEI15-120-Q48								
±0.84A	2W	5V	4.5V	5.5V	5.2kV	80%												0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0512SC	MEJ2							
		12	10.8V	13.2V	5.2kV	81%												0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1212SC								
		15V	13.5V	16.5V	5.2kV	80%												0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1512SC								
+15V	±0.025A	0.75W	5V	1.5V	5.5V	3kV	79%											0.77	0.236	0.394	19.5	6.0	10.0	CMR0515S3C	CMR							
			12V	10.8V	13.2V			0.77	0.236	0.394	19.5	6.0	10.0	CMR1215S3C																		
	±0.033A	1W	3.3V	2.97V	3.63V	1kV	77%											0.39	0.77	0.21	9.8	19.5	5.4	NKA0315DC	NKA							
																							0.23	0.65	0.30	6.0	16.6	7.6	NKA0315SC	NKA		
																		0.3	0.6	0.26	7.7	15.2	6.6	NTA0315MC	NTA							

Dual output bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style							Package Dimensions						Further Information		
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks				SM	TH	DIP	SIP	Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com
								1/8	1/4	1/2	L					W	H	L	W	H			
±15V	±0.033A	1W	5V	4.5V	5.5V	1kV	87.5%							0.39	0.77	0.27	9.8	19.5	6.8	MEA1D0515DC	MEA1		
							87%							0.24	0.77	0.39	6.0	19.5	10.0	MEA1D0515SC	MEA1		
							88%							0.323	0.331	0.335	8.2	8.4	8.5	MTU1D0515MC	MTU1		
							78%							0.39	0.77	0.27	9.8	19.5	6.8	NMA0515DC	NMA		
							78%							0.24	0.77	0.39	6.0	19.5	10.0	NMA0515SC	NMA		
							78%							0.30	0.60	0.26	7.7	15.2	6.6	NTA0515MC	NTA		
			3kV	88%							0.39	0.77	0.27	9.8	19.5	6.8	MEV1D0515DC	MEV1					
											0.24	0.77	0.39	6	19.5	10	MEV1D0515SC	MEV1					
				79%							0.39	0.77	0.21	9.8	19.5	5.4	NKA0515DC	NKA					
											0.23	0.65	0.30	6.0	16.6	7.6	NKA0515SC	NKA					
				79%							0.39	0.77	0.27	9.8	19.5	6.8	NMV0515DC	NMV					
											0.24	0.77	0.39	6.0	19.5	10.0	NMV0515SC	NMV					
		5.2kV	80%							0.30	0.60	0.26	7.7	15.2	6.6	NTV0515MC	NTV						
			75.5%							0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D0515SC	MEJ1						
		12V	10.8V	13.2V	1kV	10.8V	13.2V	1kV	88%							0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1215DC	MEA1
																0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1215SC	MEA1
									88%							0.323	0.331	0.335	8.2	8.4	8.5	MTU1D1215MC	MTU1
									76%							0.39	0.77	0.27	9.8	19.5	6.8	NMA1215DC	NMA
									76%							0.24	0.77	0.39	6.0	19.5	10.0	NMA1215SC	NMA
									76%							0.30	0.60	0.26	7.7	15.2	6.6	NTA1215MC	NTA
			3kV	88.5%							0.39	0.77	0.27	9.8	19.5	6.8	MEV1D1215DC	MEV1					
											0.24	0.77	0.39	6	19.5	10	MEV1D1215SC	MEV1					
				82%							0.39	0.77	0.21	9.8	19.5	5.4	NKA1215DC	NKA					
											0.23	0.65	0.30	6.0	16.6	7.6	NKA1215SC	NKA					
	76%									0.39	0.77	0.27	9.8	19.5	6.8	NMV1215DC	NMV						
										0.24	0.77	0.39	6.0	19.5	10.0	NMV1215SC	NMV						
	5.2kV	82%							0.30	0.60	0.26	7.7	15.2	6.6	NTV1215MC	NTV							
		77%							0.77	0.390	0.50	19.5	9.95	12.65	MEJ1D1215SC	MEJ1							
	15V	13.5V	16.5V	1kV	13.5V	16.5V	1kV	89.5%							0.39	0.77	0.27	9.8	19.5	6.8	MEA1D1515DC	MEA1	
															0.24	0.77	0.39	6.0	19.5	10.0	MEA1D1515SC	MEA1	
								80%							0.39	0.77	0.27	9.8	19.5	6.8	NMA1515DC	NMA	
															0.24	0.77	0.39	6.0	19.5	10.0	NMA1515SC	NMA	
								90.5%							0.39	0.77	0.27	9.8	19.5	6.8	MEV1D1515DC	MEV1	
															0.24	0.77	0.39	6	19.5	10	MEV1D1515SC	MEV1	
		24V	21.6V	26.4V	1kV	21.6V	26.4V	1kV	88%							0.39	0.77	0.27	9.8	19.5	6.8	MEA1D2415DC	MEA1
																0.24	0.77	0.39	6.0	19.5	10.0	MEA1D2415SC	MEA1
									88.5%							0.39	0.77	0.27	9.8	19.5	6.8	MEV1D2415DC	MEV1
																0.24	0.77	0.39	6	19.5	10	MEV1D2415SC	MEV1
									88%							0.39	0.77	0.27	9.8	19.5	6.8	MEV1D2415DC	MEV1
																0.24	0.77	0.39	6	19.5	10	MEV1D2415SC	MEV1
	48V	43.2V	52.8V	1kV	43.2V	52.8V	1kV	83.5							0.24	0.77	0.39	6.0	19.5	10.0	MEA1D4815DC	MEA1	
															0.24	0.77	0.39	6	19.5	10	MEV1D4815SC	MEV1	
								85%							0.24	0.77	0.39	6	19.5	10	MEV1D4815SC	MEV1	
								85%							0.24	0.77	0.39	6	19.5	10	MEV1D4815SC	MEV1	
								85%							0.24	0.77	0.39	6	19.5	10	MEV1D4815SC	MEV1	
								85%							0.24	0.77	0.39	6	19.5	10	MEV1D4815SC	MEV1	
	±0.05A	1.5W	5V	4.5V	5.5V	8kV	8kV	75%							1.27	0.81	0.40	32.3	20.5	10.2	PWR1305AC	PWR13XXC	
								75%							1.27	0.81	0.40	32.3	20.5	10.2	PWR1311AC	PWR13XXC	
69%														1.65	1.13	0.41	41.9	28.6	10.3	PWR1726AC	PWR1726AC		
75%														1.27	0.81	0.40	32.3	20.5	10.2	PWR1317AC	PWR13XXC		
75%														1.27	0.81	0.40	32.3	20.5	10.2	PWR1317AC	PWR13XXC		
75%														1.27	0.81	0.40	32.3	20.5	10.2	PWR1317AC	PWR13XXC		
±0.067A	2W	5V	4.5V	5.5V	1kV	1kV	84%							0.39	0.77	0.30	9.8	19.5	7.7	NMH0515DC	NMH		
														0.30	0.77	0.40	7.5	19.5	10.0	NMH0515SC	NMH		
							84%							0.50	0.70	0.21	12.7	17.8	6.0	NTH0515MC	NTH		
							87%							0.30	0.77	0.4	7.5	19.5	10	NMK0515SC	NMK		
							79%							0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D0515SC	MEJ2		
							78%							0.58	1.28	0.37	14.7	32.6	9.4	NMS0515SC	NMS		
	12V	10.8V	13.2V	1kV	10.8V	13.2V	1kV	84%							0.39	0.77	0.30	9.8	19.5	7.7	NMH1215DC	NMH	
															0.30	0.77	0.40	7.5	19.5	10.0	NMH1215SC	NMH	
								84%							0.50	0.70	0.21	12.7	17.8	6.0	NTH1215MC	NTH	
								87%							0.30	0.77	0.4	7.5	19.5	10	NMK1215SC	NMK	
								82%							0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1215SC	MEJ2	
								82%							0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D1215SC	MEJ2	

Dual output bipolar

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information					
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks						Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com				
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H			
±15V	±0.067A	2W	12V	10.8V	13.2V	6kV	82%									0.58	1.28	0.37	14.7	32.6	9.4	NMS1215C	NMS		
							1kV	84%										0.30	0.77	0.40	7.5	19.5	10.0	NMH15155C	NMH
			15V	13.5V	16.5V	3kV	88%											0.30	0.77	0.4	7.5	19.5	10	NMK15155C	NMK
						5.2kV	79%												0.5	0.77	0.39	12.7	19.7	10.0	MEJ2D15155C
			24V	21.6V	26.4V	1kV	86%											0.39	0.77	0.30	9.8	19.5	7.7	NMH2415DC	NMH
						3kV	89%												0.30	0.77	0.40	7.5	19.5	10.0	NMH24155C
	48V	43.2V	52.8V	1kV	85%											0.39	0.77	0.30	9.8	19.5	7.7	NMH4815DC	NMH		
	48V	43.2V	52.8V	1kV	85%											0.30	0.77	0.40	7.5	19.5	10.0	NMH48155C	NMH		
	±0.1A	3W	5V	4.5V	9V	1kV	75%										0.58	1.27	0.27	14.7	32.3	7.0	NDTD0515C	NDTD	
																					0.58	1.27	0.27	14.7	32.3
			12V	9V	18V	1kV	78%											0.58	1.27	0.27	14.7	32.3	7.0	NDTD1215C	NDTD
						10V	18V	5kV	66%											1.13	1.13	0.41	28.6	28.6	10.7
			15V	18V	36V	1kV	82%											0.36	1.02	0.49	9.3	26.0	12.5	NDH24155C	NDH
						48V	36V	75V	1kV	81%										0.58	1.27	0.27	14.7	32.3	7.0
	±0.167A	5W	5V	4.5V	5.5V	0.75kV	60%										2.00	2.00	0.40	50.8	50.8	10.2	PWR1546AC	PWR1546A	
																						1.26	0.787	0.423	32
	±0.20A	6W	12V	9V	36V	5.2kV	87%										1.26	0.787	0.423	32	20	10.75	NCM6D1215C	NCM6	
						1.5kV	87%												1.26	0.79	0.39	32	20	10	NCS6D1215C
			24V	18V	36V	1.5kV	87.5%											1.26	0.79	0.39	32	20	10	NDS6D2415C	NDS6
						5.2kV	83%												1.26	0.787	0.423	32	20	10.75	NCM6D4815C
			48V	18V	75V	1.5kV	84%											1.26	0.79	0.39	32	20	10	NCS6D4815C	NCS6
						12V	9V	36V	1.5kV	86%										1.26	0.787	0.394	32	20	10
	48V	18V	75V	1.5kV	85%											1.26	0.787	0.394	32	20	10	NCS12D4815C	NCS12		
				24V	9V	36V	2.25kV	84%										1.1	0.35	0.96	27.9	8.9	24.4	BEI15-150-Q12	BEI15-Series
48V	18V	75V	2.25kV	86%											1.1	0.35	0.96	27.9	8.9	24.4	BEI15-150-Q48	BEI15-Series			

Dual output Asymmetric isolated DC-DC converter series

Asymmetric duals are isolated, 2-output DC/DC converters that typically provide two low voltages such as 3.3V and 1.8V. As such, they are ideal for driving the core and I/O logic of complex PLDs or ASICs. On DSL line cards, they can power both the DSP and the line drivers. In evolving process-control systems, they can power older 5V logic and newer 3.3V micros.

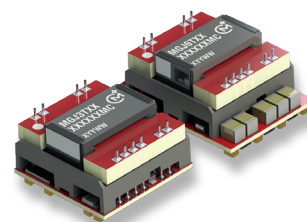
Asymmetric duals provide the real estate and cost savings of a single package with one set of input circuitry. On the output side, many duals feature 2-loop designs that effectively deliver two independently regulated converters in a single package with a standard pinout and internationally recognized safety approvals.

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information				
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks						Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com			
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H		
5/3.3V	6/7A	33W	12V	10V	18V	1.5kV	86%										2.00	2.00	0.45	50.8	50.8	11.4	BWR-5/6-3.3/7-D12-C	BWR-5/3.3 33W
				24V	18V		36V	88%										2.00	2.00	0.45	50.8	50.8	11.4	
			48V	36V	75V	88%											2.00	2.00	0.45	50.8	50.8	11.4	BWR-5/6-3.3/7-D48-C	
5/5V	0.1/0.1A	1W	5V	4.5V	5.5V	1.0kV	70%										0.39	0.77	0.27	9.8	19.5	6.8	NMD050505DC	NMD
																	0.24	0.77	0.39	6.0	19.5	10.0	NMD050505SC	
5/9V	0.1/0.056A	1W	5V	4.5V	5.5V	1.0kV	80%										0.39	0.77	0.27	9.8	19.5	6.8	NMD050509DC	NMD
																					0.24	0.77	0.39	
			12V	10.8V	13.2V	1.0kV	80%											0.39	0.77	0.27	9.8	19.5	6.8	
																	0.24	0.77	0.39	6.0	19.5	10.0	NMD120509SC	
5/12V	0.1/0.042A	1W	5V	4.5V	5.5V	1.0kV	80%										0.24	0.77	0.39	6.0	19.5	10.0	NMD050512SC	NMD
							80%													0.24	0.77	0.39	6.0	
5/15V	0.1/0.034A	1W	5V	4.5V	5.5V	1.0kV	80%										0.24	0.77	0.39	6.0	19.5	10.0	NMD050515SC	NMD
							80%													0.39	0.77	0.27	9.8	
																	0.24	0.77	0.39	6.0	19.5	10.0	NMD120515SC	

Dual output asymmetric / Triple output isolated

Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information				
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks						Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com			
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H		
15/-5V	0.8/0.4A	2W	5V	4.5V	5.5V	5.2kV	76%									0.77	0.39	0.5	19.65	9.95	12.65	MGJ2D051505SC	MGJ2	
			12V	10.8V	13.2V		80%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D121505SC
			15V	13.5V	16.5V		80%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D151505SC
			24V	21.6V	26.4V		80.5%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D241505SC
15/-8.7V	0.8/0.4A	2W	5V	4.5V	5.5V	5.2kV	77.5%									0.77	0.39	0.5	19.65	9.95	12.65	MGJ2D051509SC	MGJ2	
			12V	10.8V	13.2V		80%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D121509SC
			15V	13.5V	16.5V		80%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D151509SC
			24V	21.6V	26.4V		82%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D241509SC
15/15V	0.67/0.67A	2W	5V	4.5V	5.5V	5.2kV	79%									0.77	0.39	0.5	19.65	9.95	12.65	MGJ2D051515SC	MGJ2	
			12V	10.8V	13.2V		82%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D121515SC
			15V	13.5V	16.5V		79%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D151515SC
20/-5V	0.8/0.4A	2W	5V	4.5V	5.5V	5.2kV	78.5%									0.77	0.39	0.5	19.65	9.95	12.65	MGJ2D052005SC	MGJ2	
			12V	10.8V	13.2V		82%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D122005SC
			15V	13.5V	16.5V		81%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D152005SC
			24V	21.6V	26.4V		82%										0.77	0.39	0.5	19.65	9.95	12.65		MGJ2D242005SC

Triple output Isolated DC-DC converters



Output Characteristics			Input Voltage			Isolation	Efficiency	Package Style						Package Dimensions						Further Information					
Rated Output Voltage	Rated Output Current	Total Output Power	Nom.	Min.	Max.			Bricks						Inches			mm			Part Number Note: Root part numbers may be shown. Please refer to datasheets for available options.	Datasheet Available at www.murata-ps.com				
								1/8	1/4	1/2	SM	TH	DIP	SIP	L	W	H	L	W			H			
24/48/72V	42/21/14mA	3W	5V	4.5V	5.5V	10kV	85%									0.30	0.86	0.44	7.5	21.8	11.1	NMT0572SC	NMT		
			12V	10.8V	13.2V	10kV	85%										0.30	0.86	0.44	7.5	21.8	11.1		NMT1272SC	
15/5/5	120	3W	5V	4.5	9	5.2kV	80%									0.91	0.89	0.58	23.11	22.61	14.65	MGJ3T05150505MC	MGJ3		
			12V	9	18	5.2kV	82%										0.91	0.89	0.58	23.11	22.61	14.65		MGJ3T12150505MC	
			24V	18	36	5.2kV	81%										0.91	0.89	0.58	23.11	22.61	14.65		MGJ3T24150505MC	
			240	6W	5V	4.5	9	5.2kV	80%									1.23	0.89	0.58	31.24	22.61	14.65	MGJ6T05150505MC	MGJ6
										12V	9	18	5.2kV	82%									1.23	0.89	
240	6W	24V	18	36	5.2kV	83%									1.23	0.89	0.58	31.24	22.61	14.65	MGJ6T24150505MC				

MGJ 3/6 configurations

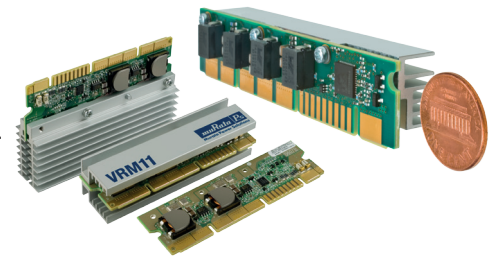
Function	IGBT	SIC	MOSFET
15V Output	+15V	+20V	+15V
15V (0V reference) 5VA output	0V		0V
15VA (0V reference) 5VB output		0V	-5V
5VB (0V reference)	-10V	-5V	

VRM processor support

Powering next generation 32-Bit and 64-Bit processors is becoming more demanding, requiring lower output voltages, higher currents, and higher di/dts.

Our VRM products are designed to meet and exceed the performance demanded by the next generation processors and are

available in a variety of packages for an optimal fit in systems <1U to 2U with innovative open-frame designs that allow for bet-



VRM Spec	Output Characteristics			Input Voltage			Efficiency	Package Style				Package Dimensions						Further Information			
	Thermal Design Current	Max. Output Current	Output Voltage Range (VDC)	Nom.	Min.	Max.		Card Edge	Thru Hole	Height				L	W	H	L	W	H	Part Number	Datasheet Available at www.murata-ps.com
										<1U	1U	1.5U	2U								
Intel® 11.1	80A	70A	0.5-1.6	12	11.04	12.6	87%	✓	✓			3.66	0.75	0.78	92.96	19.05	19.81	VR111B080CA-C	VR111 Series		
							87%	✓		✓		3.80	0.87	1.18	96.52	22.10	29.97	VR111B150CU-C			
	150A	130A	0.5-1.6	12	11.04	12.6	87%	✓			✓	3.80	1.00	1.86	96.52	25.40	47.24	VR111B150CL-C			
							87%	✓			✓	3.80	0.87	2.50	96.52	22.10	63.50	VR111B150CS-C			

LXDC series

μDCDC converters

For analog/linear and other applications requiring bipolar/symmetric rail voltages, Murata Power Solutions' isolated duals generate ±3.3V, ±5V, ±12V or ±15V outputs from a single input voltage. Not surprisingly, our offering is the industry's broadest.

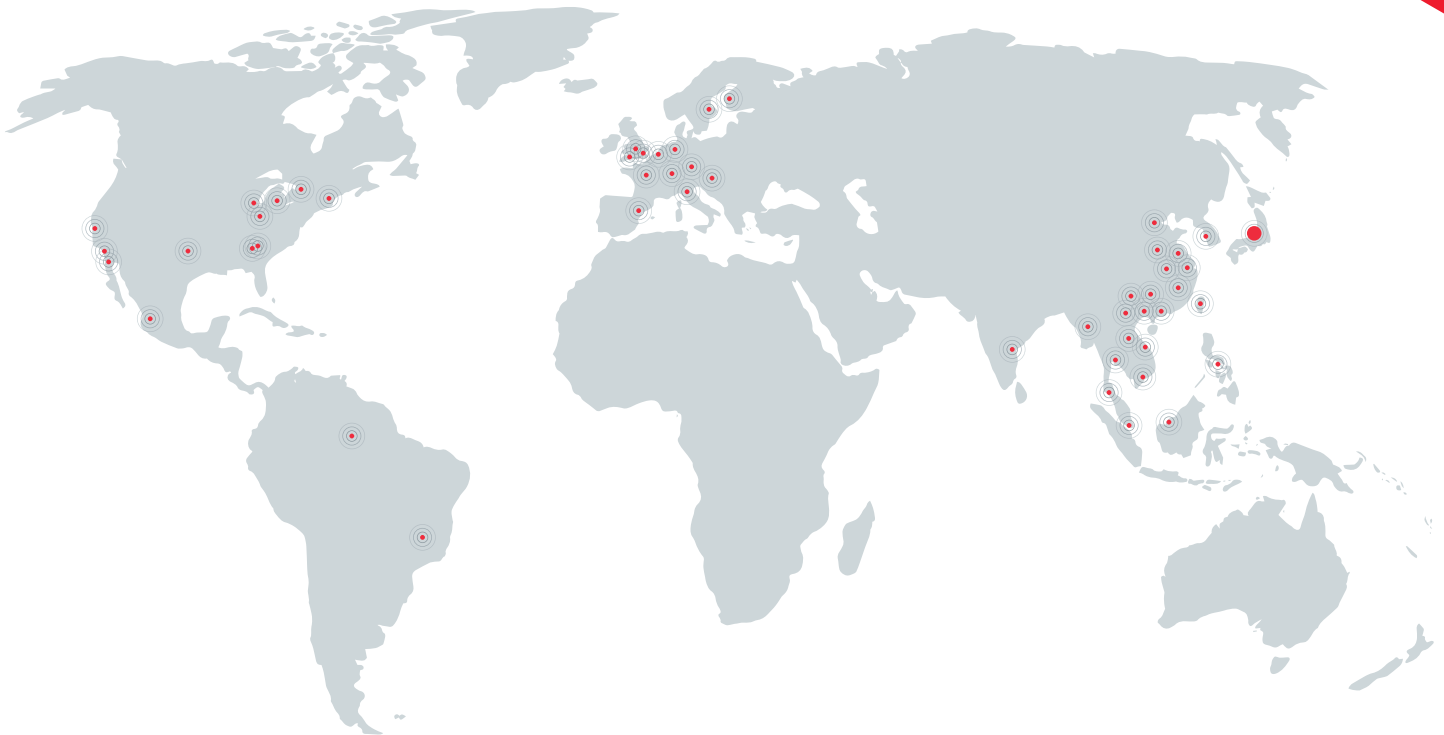
Features

- Low EMI noise and small footprint due to inductor-embedded ferrite substrate
- High efficiency using synchronous rectifier technology and PFM/PWM auto-select function
- Operating temperature range: -40 to +85°C (105°C for 2XQ)

Type	Load current	Series	W x L x T (mm)	Application circuit	Part Number	Input Voltage (V)	Output Voltage (V)	Max. Iout (mA)	Switch. Freq.	Pkg. (pcs/reel)
Buck	≤0.6A	2HL	2.5×2.0×1.1		LXDC2HL10A-080	2.3-5.5	1.0	600	3MHz	3000
					LXDC2HL12A-050		1.2			
					LXDC2HL13A-082		1.3			
					LXDC2HL15A-051	2.35-5.5	1.35			
					LXDC2HL18A-052		1.8			
					LXDC2HL25A-053	3.5-5.5	2.5			
					LXDC2HL28A-243		2.8			
					LXDC2HL30A-054	3.7-5.5	3.0			
					LXDC2HL33A-055		3.3			
					2HN	2.5×2.0×1.2	(w/resin coating)			
	LXDC2HN12A-099	1.2								
	LXDC2HN13A-236	1.3								
	LXDC2HN15A-133	2.35-5.5	1.35							
	LXDC2HN18A-097		1.8							
	LXDC2HN25A-134	3.5-5.5	2.5							
	LXDC2HN28A-235		2.8							
	LXDC2HN30A-135	3.7-5.5	3.0							
	LXDC2HN33A-136		3.3							
	2UR	2.5×2.3×1.2						LXDC2UR12A-118	2.3-5.5	1.2
					LXDC2UR15A-119	1.5				
LXDC2UR18A-120					1.8					
LXDC2UR30A-143					3.0					
LXDC2UR33A-122					3.3					
LXDC2XQ10A-251					2.7-5.5	1.0	1.5A	3MHz		3000
LXDC2XQ11A-298	1.2									
LXDC2XQ12A-252	1.35									
LXDC2XQ15A-299	1.5									
LXDC2XQ18A-253	1.8									
LXDC2XQ25A-300	2.5									
LXDC2XQ33A-254	3.3									
55K	≤3A	55K	5.7×5.0×2.1		LXDC55KAAA-205	2.7-5.5	0.8-3.6 Set by trim resistor	3000	3MHz	1000
55F	≤1.5A	55F	5.7×5.0×2.1		LXDC55FAAA-203	4.0-14.0	0.8-5.3 Set by trim resistor	1500	2.5MHz	1000
Buck/Boost	≤1A Buck Mode/ ≤800mA Boost Mode	3EC	3.5×3.2×1.3		LXDC3ECAAD-202	2.5-5.5	3.2-3.4V Set at factory	≤1A Buck Mode/ ≤800mA Boost Mode	6MHz	1000
Boost	≤0.7A	44A	4.0×4.0×2.0		LXDC44AAAC-169	2.7-5.5	5.0	700	3.3MHz	1000

Global Locations

For details please visit www.murata.com



⚠ Note

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- ④ Power plant equipment
- ⑤ Medical equipment
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- ⑧ Disaster prevention / crime prevention equipment
- ⑨ Data-processing equipment
- ⑩ Application of similar complexity and/or reliability requirements to the applications listed above

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