



P-DUKE
POWER

Innovative Power for your Visions.



Industrial



Railway



Medical



Defense

DC/DC Converters AC/DC Power Supplies

Product Portfolio

COMPANY PROFILE

Expanding Your Vision Leading Your Future

P-DUKE is a Taiwan based company founded in 1992, that is fully committed to research & development and the production of high-performance power conversion products. P-DUKE offers a broad range of DC/DC converters, AC/DC power supplies as well as custom power conversion solutions. With the main focus on both railway and medical markets, where the highest product quality and compliance to all relative application standards is required, P-DUKE 's main business is in Europe, America and Asia Pacific.

Powering The World The Innovator of Power Solutions

Accumulating over 30 years experience in the power conversion field has allowed P-DUKE to become the leading manufacturer in the low-power conversion market. The company has a strong technical team that provides prompt and professional support in power relevant system design issues which are, for example, choosing optimal power solutions or suggestions for EMI circuits, etc.

Subsidiary Company California, USA



World Headquarters Taichung, Taiwan

Capital:	US\$ 25,000,000
Employee:	290
Main Business:	AC/DC Power Supplies DC/DC Converters Customized Solutions *Modifications & Extensions



Wuxi, China

Area:	40,000 square meters
Capacity:	530k pcs transformers/M 1,200k pcs inductors/M
Employee:	280



1992

POWER MATE Technology Co., Ltd. was founded



2005

Investigation and developing customized products for railway applications

2010

Developing and launch new standard ruggedized products dedicated for railway applications



2012

Developing and launch new state of the art AC/DC and DC/DC standard products dedicated for medical applications



2016

Company name was changed to P-DUKE Technology Co., Ltd.



2024

The new building is expect to finish construction in Q4.

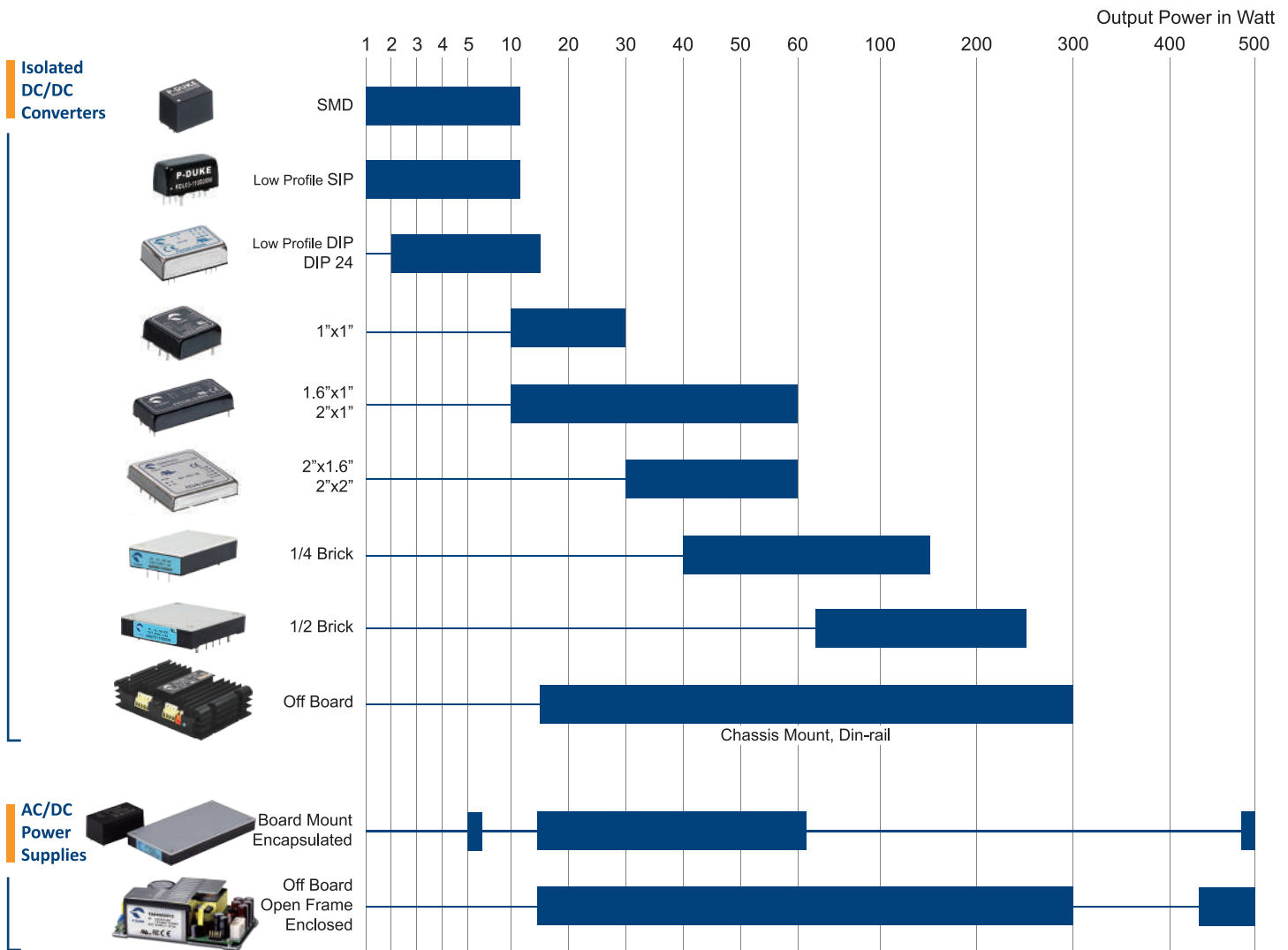
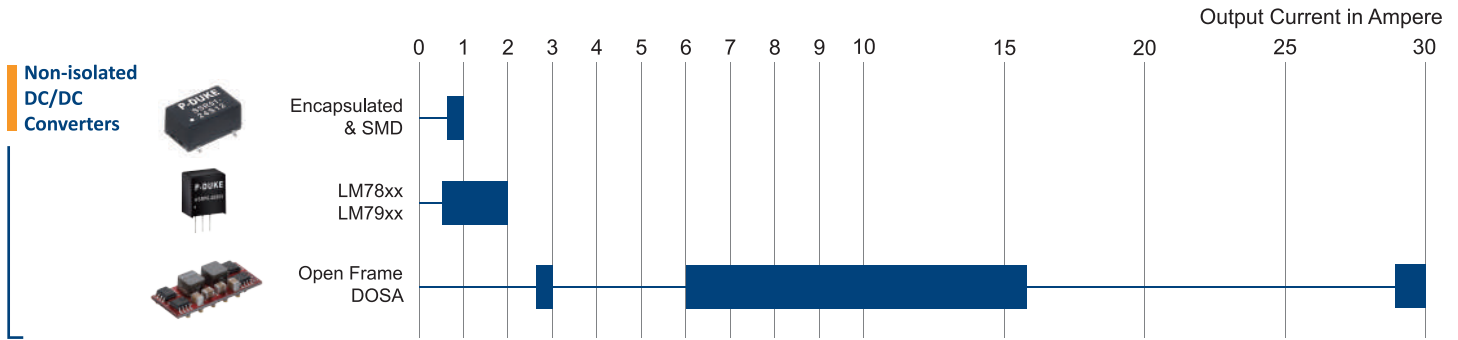
Various Applications in the High-tech Industry Exploring any Possibilities in each Application Field

We are experts in reliable and highly efficient power converter solutions with best thermal management. We continuously explore the possibilities and opportunities to cooperate with our valued customers. Providing the best power converter solutions to our customer's applications with years of experiences and know-how. We always view our customer's requirements and our product quality as our first priority. To fulfil the requirements of any application, we have certified our products to the latest international safety and EMI/EMC standards and their relevant approvals.



ISO 9001
ISO 13485
ISO 14001
ISO 45001



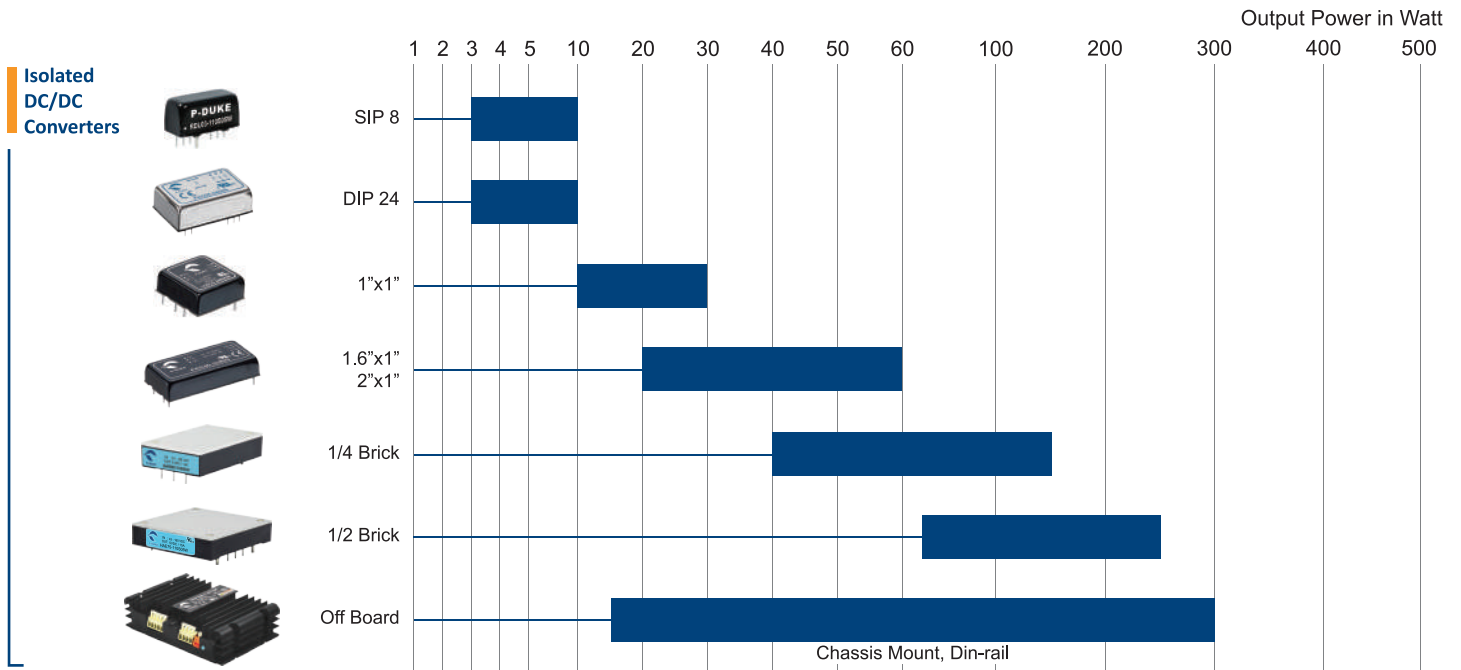


*JST, Molex, and screw terminal block are available for AC/DC, please see datasheet for further information.

RAILWAY



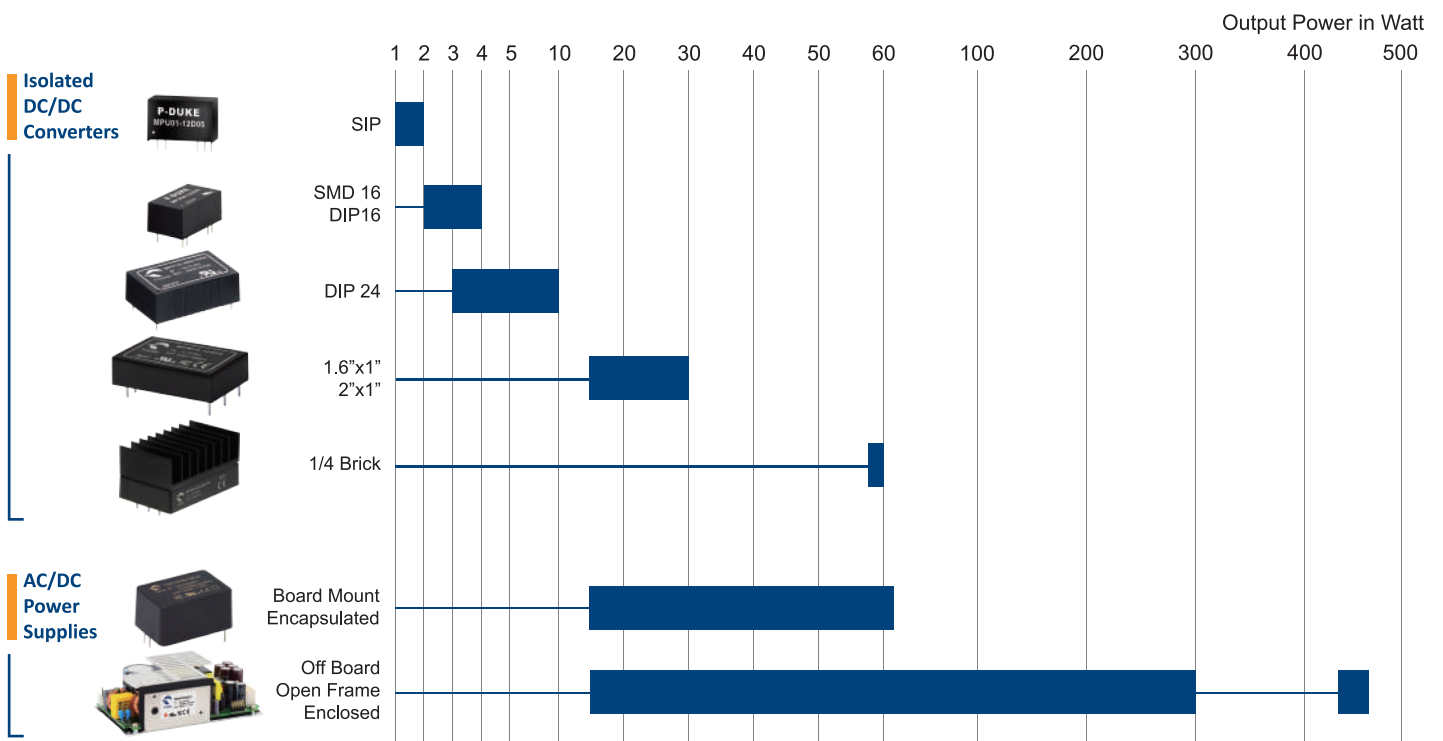
IEC 62368-1 | EN 50155 : 2017 | EN 45545-2 | EN 61373



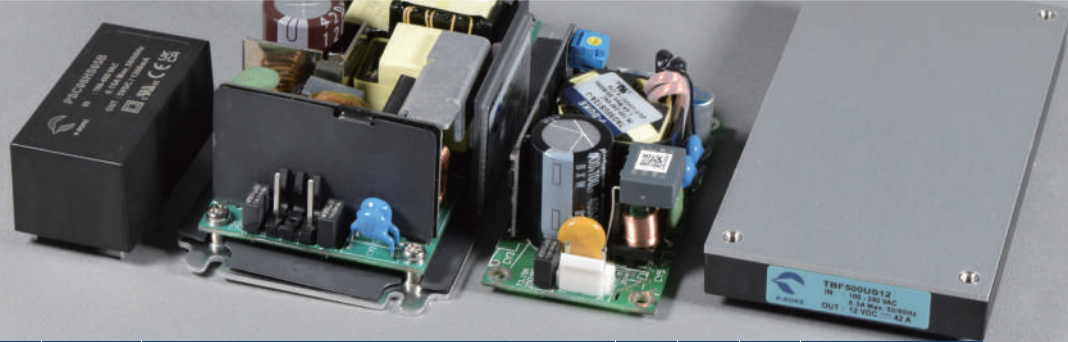
MEDICAL



IEC 62368-1 | IEC 60601-1 Edition 3.1 | IEC 60601-1-2 4th Edition | ISO 13485 | ISO 14971

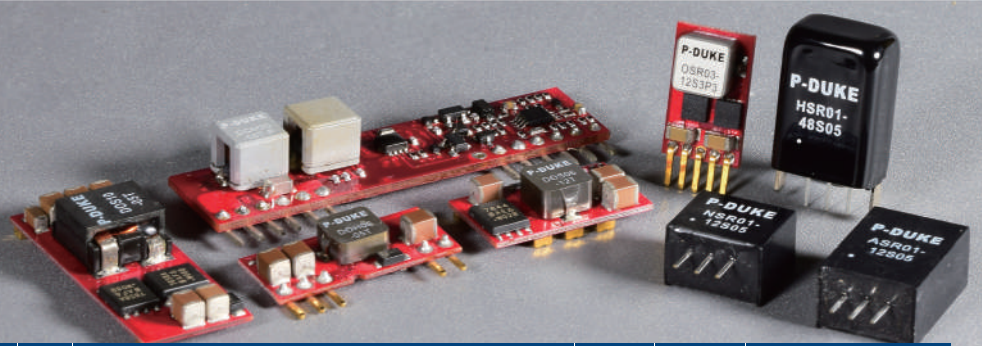


*JST, Molex, and screw terminal block are available for AC/DC, please see datasheet for further information.



Series	Open Frame Enclosed Encapsulated	Pin Connection Type	Output Power (W)		Input Voltage (VAC)	Single Output Dual Output Triple Output	Output Voltage											Eff. (%)	OCV III	Isolation Voltage (VAC)	Dimensions (Inch)			
			Con.	Peak			3.3 Vout	5.0 Vout	7.5 Vout	9.0 Vout	12 Vout	15 Vout	18 Vout	24 Vout	28 Vout	36 Vout	48 Vout				53 Vout	54 Vout	L	W
PSC06	● ●	6			85 – 530	●	●	●	●	●									75	●	4000	2.07	1.08	0.91
TSC15	● ●	15			85 – 264	●	●	●	●	●	●	●	●	●	●	●	●	●	89		3000	2.82	1.14	0.82
TSD30	● ●	30				●	●	●	●	●	●	●	●	●	●	●	●	●	91.5			3.95	1.50	1.00
TSD30-P	● ●	30	40			●	●	●	●	●	●	●	●	●	●	●	●	●	91.5			3.95	1.50	1.00
TSD40	● ●	40				●	●	●	●	●	●	●	●	●	●	●	●	●	93	●		4.30	2.20	1.20
TSD65	● ●	65				●	●	●	●	●	●	●	●	●	●	●	●	●	93.5	●		4.30	2.20	1.20
TAC15	●	15				●	●	●	●	●	●	●	●	●	●	●	●	●	89			2.61	1.00	0.62
TAD30	●	30				●	●	●	●	●	●	●	●	●	●	●	●	●	91.5			3.34	1.36	0.77
TAD30-P	●	30	40			●	●	●	●	●	●	●	●	●	●	●	●	●	91.5			3.34	1.36	0.77
TAD40 Single	● ●	40				●	●	●	●	●	●	●	●	●	●	●	●	●	93	●		3.00	2.00	0.94
TAD65 Single	● ●	65				●	●	●	●	●	●	●	●	●	●	●	●	●	93.5	●		3.00	2.00	0.94
TAD65-P	● ●	65	90			●	●	●	●	●	●	●	●	●	●	●	●	●	93.5	●		3.00	2.00	0.94
TAD40 Multi	● ●	40				● ● ●	● ●		● ●		● ●								90	●		3.50	2.00	0.98
TAD65 Multi	● ●	65				● ● ●	● ●		● ●		● ●								90.5	●		3.50	2.00	0.98
TAD50	●	50	70			●	●	●	●	●	●	●	●	●	●	●	●	●	92.5	●		3.00	1.50	1.18
TAD100	● ●	100			●			● ●		● ●		● ●						92	●	3.00	2.00	1.16		
TAD125	● ●	125	150		●			● ●		● ●		● ●						92	●	3.00	2.00	1.16		
TAF150	● ●	150			●			● ●		● ●		● ●						92	●	4.00	2.00	1.16		
TAD180	● ●	180	220		●			● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	94	●	3.00	2.00	1.24		
TAH240	●	240	300		85 – 305	●			● ●		● ●		● ●		● ●	● ●	● ●	91		5.00	3.00	1.32		
TAF300	● ●	300	360		85 – 264	●			● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	93	●	4.00	2.09	1.26		
TAH450	● ●	450				●			● ●		● ●		● ●		● ●	● ●	● ●	94		5.00	3.00	1.58		
TBF500	● ●	500				●			● ●	○	● ●		● ●		● ●	● ●	● ●	93	●	4.60	2.40	0.50		
XTBF500	● ●	500				●			● ●		● ●		● ●		● ●	● ●	● ●	93	●	7.20	4.30	1.65		

NON-ISOLATED DC/DC CONVERTERS



Series	Open Frame Encapsulated SMD Type Thru-hole Type	Output Current (A)	Input Voltage (VDC)	Negative Vout Available	Output Voltage												Eff. (%)	Isolation Voltage	Dimensions (Inch)			
					1.2 Vout	1.5 Vout	1.8 Vout	2.5 Vout	3.0 Vout	3.3 Vout	5.0 Vout	5.2 Vout	6.0 Vout	6.5 Vout	8.0 Vout	9.0 Vout			12 Vout	15 Vout	24 Vout	L
HSRP6	● ●	0.6	9 – 72							● ●								94	None	0.47	0.34	0.53
HSR01	● ●	1	9 – 72							● ●								93		0.48	0.34	0.69
ASR01	● ●	1	-7 – -32		○							○ ○		○ ○	○ ○	○ ○		96		0.46	0.30	0.65
NSR01	● ●	1	4.6 – 36	●	● ● ● ● ● ● ● ●								● ●		● ● ● ●		95.5	0.46		0.30	0.40	
PSR1.0	● ●	1	4.6 – 36		● ● ● ● ● ● ● ●								● ●		● ● ● ●		96	0.46		0.30	0.40	
LSR01	● ●	1	3.0 – 36		● ● ● ● ● ● ● ●								● ●		● ● ● ●		96	0.60		0.37	0.30	
SSR01	● ●	1	3.0 – 36	●			● ●								● ● ● ●		95.5	0.60		0.37	0.30	
PSR02	● ●	2	3.0 – 36		● ● ● ● ● ● ● ●								● ●		● ● ● ●		96	0.55		0.30	0.40	
OSR03	● ●	3	2.5 – 30	●											0.59 – 15 VDC		95	0.37		0.24	0.61	
DOS/H06	● ● ● ●	6	2.4 – 5.5 8.3 – 14												0.75 – 5.0 VDC		94	0.80		0.45	0.25	
DOS/H10	● ● ● ●	10														0.75 – 5.0 VDC		95		1.30	0.53	0.30
DOS/H16	● ● ● ●	16														0.75 – 5.0 VDC		95		1.30	0.53	0.30
DOS/H30	● ● ● ●	30		4.5 – 14												0.8 – 5.5 VDC		93		1.30	0.53	0.31

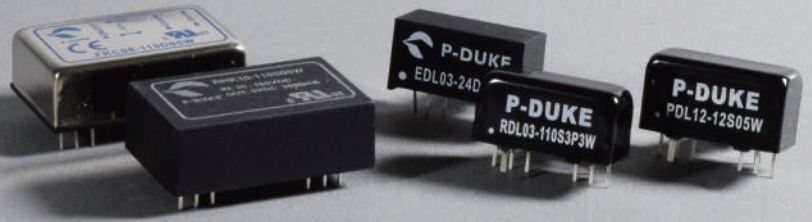
○ : Negative Output Voltage

DC/DC FRONT-END FILTERS



Series	Surge Protection EMI Filter	Footprint	Output Power (W)	Vnom (VDC)	Input Voltage (VDC)	Max. Transient Voltage	Clamp Voltage (VDC)	Standard	Dimensions (Inch)		
									L	W	H
SSM-110P50-001	●	DIP-24	20	110	43 – 160	385 V / 20 ms	168	RIA 12 Surge Susceptibility NF F 01-510	1.25	0.80	0.40
SSM-110004-001	●	1.6"x1"	150	110	43 – 160				1.60	1.00	0.40
SSM-110008-001	●		300	110	43 – 160				1.60	1.00	0.40
MCF-028	● ●	1.6"x1"	45	28	9 – 36	100 V / 50 ms	40	MIL-STD 1275E MIL-STD 704F RTCA DO-160G Cat. A/Z MIL-STD 461G	1.60	1.00	0.40
		2"x1"	75						2.00	1.00	0.40
		1/4 Brick	150						2.28	1.45	0.50
		1/4 Brick	200						2.28	1.45	0.50

ISOLATED DC/DC CONVERTERS



SIP-8 | SMD-24 | DIP-24

Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Output			Output Voltage											Eff. (%)	Isolation Voltage	Dimensions (Inch)		
			12:1 / 8:1	4:1	2:1		Single Output	Dual Output	Triple Output	3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout			±15 Vout	±24 Vout	L
EDL02	SIP-8	2	●		4.5 – 13.2 9 – 18	●	●		●	●		●	●	●	●		●	●	●	86	1600 VDC	0.86	0.36	0.44	
EDL03		3	●		18 – 36 36 – 75	●	●		●	●		●	●	●	●		●	●	●	86					
EDL02W		2	●		4.5 – 18 9 – 36	●	●		●	●		●	●	●	●		●	●	●	82					
EDL03W		3	●		18 – 75	●	●		●	●		●	●	●	●		●	●	●	83					
LDL03		3	●		4.5 – 13.2 9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●	●		●	●	●	85	1600 VDC				
PDL02		2	●		4.5 – 9 9 – 18	●	●		●	●		●	●	●	●		●	●	●	84	3000 VDC 1600 VDC				
PDL03		3	●		18 – 36	●	●		●	●		●	●	●	●		●	●	●	85					
PDL06		6	●		36 – 75	●	●		●	●		●	●	●	●		●	●	●	86					
PDL09		9	●		9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●	●		●	●	●	90	1600 VDC				
PDL03W		3	●		4.5 – 18 9 – 36 18 – 75	●	●		●	●		●	●	●	●		●	●	●	82	3000 VDC 1600 VDC				
PDL06W		6	●		9 – 36 18 – 75	●	●		●	●		●	●	●	●		●	●	●	88	3000 VDC 1600 VDC				
PDL09W		9	●			●	●		●	●		●	●	●	●		●	●	●	89	1600 VDC				
PDL12W	12	●		4.5 – 18 9 – 36 18 – 75	●	●		●	●		●	●	●	●		●	●	●	90	1600 VDC	0.86	0.38	0.44		
RDL03W	3	●		9 – 36	●	●		●	●		●	●	●	●		●	●	●	83	3000 VDC					
RDL06W	6	●		18 – 75	●	●		●	●		●	●	●	●		●	●	●	88						
RDL10W	10	●		43 – 160	●	●		●	●		●	●	●	●		●	●	●	89	3000 VDC 2250 VDC	0.87	0.38	0.47		
FKC03	DIP-24 SMD-24	3	●		9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●		●	●	●	82	1600 VDC	1.25	0.80	0.40		
FKC05		5	●			●	●		●	●		●	●	●	●		●	●	●					84	
FKC08		8	●			●	●		●	●		●	●	●	●		●	●	●					88	
FKC12		12	●			●	●		●	●		●	●	●	●		●	●	●					88	
FKC15		15	●			●	●		●	●		●	●	●		●	●	●	91						
FKC05W		5	●		9 – 36 18 – 75	●	●		●	●		●	●	●		●	●	●	84						
FKC08W		8	●		9 – 36 18 – 75 43 – 160	●	●		●	●		●	●	●		●	●	●	88						
FKC12W		12	●		9 – 36 18 – 75	●	●		●	●		●	●	●		●	●	●	88						
FKC15W		15	●			●	●		●	●		●	●	●		●	●	●	90						
LKC05W		5	●		4.5 – 12 9 – 36 18 – 75	●	●		●	●		●	●	●		●	●	●	●					89	
RHK03W	DIP-24	3	●		36 – 160	●	●		●	●		●	●	●		●	●	●	85	3000 VAC					
RHK06W		6	●			●	●		●	●		●	●	●		●	●	●	86.5						
RHK10W		10	●			●	●		●	●		●	●	●		●	●	●	88						

ISOLATED DC/DC CONVERTERS



1"x1"

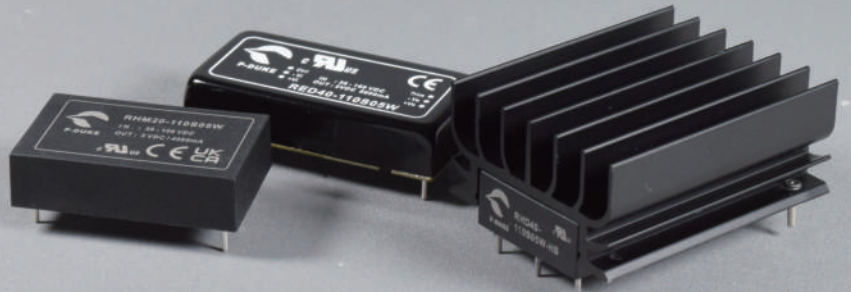


Series	Footprint	Output Power (W)	Input Ratio 12:1/8:1 4:1 2:1	Input Voltage (VDC)	Single Output Dual Output Triple Output	Output Voltage												Eff. (%)	Isolation Voltage	Dimensions (Inch)		
						2.5 Vout	3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout			±24 Vout	L	W
LCD10	1"x1"	10	●	9 – 18 18 – 36 36 – 75	● ●	● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91	1600 VDC	1.00 1.00 0.39				
LCD15		15	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●			91			
LCD20		20	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●			92			
LCD30		30	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●			93			
LCD10W		10	●	9 – 36 18 – 75	● ●	● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91						
LCD15W		15	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91						
LCD20W		20	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91						
LCD30W		30	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	92						
RCD15		15	●	9 – 18 18 – 36 36 – 75	● ●	● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91			3000 VDC 1600 VDC			
RCD10W		10	●	9 – 36 18 – 75 36 – 160	● ●	● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	90			3000 VDC			
RCD15W		15	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91						
RCD20W		20	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	91			3000 VDC 2250 VDC			
RCD30W		30	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	92						
RCD10U		10	●	9 – 75 14 – 160	● ●	● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	88			3000 VDC			
RCD20U		20	●		● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	88						
LED15	15	●	18 – 36 36 – 75	●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	88	2250 VDC	1.10 0.94 0.33					
LED15W	15	●	9 – 36 18 – 75	●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	87								

ISOLATED DC/DC CONVERTERS



Industrial



1.6"x1" | 2"x1" | 2"x1.6" | 2"x2"

	Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output		Dual Output		Triple Output		Output Voltage										Eff. (%)	Isolation Voltage	Dimensions (Inch)										
				12:1/8:1	4:1	2:1		1.5 Vout	1.8 Vout	2.5 Vout	3.3 Vout	5.0 Vout	5.1 Vout	12 Vout	15 Vout	24 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout	±24 Vout	L			W	H									
	RHM20W	1.6"x1"	20	●			36 - 160	●	●					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	90.5	3000 VAC	1.60	1.00	0.40			
	FDC10	2"x1"	10	●			9 - 18 18 - 36 36 - 75	●	●																				87	1600 VDC	2.00	1.00	0.40			
	FEC15		15	●					●	●																									88	
	FED20		20	●					●	●	●	●	●	●	●																				89	
	FED30		30	●					●	●	●	●	●	●	●	●	●	●																		91
	EED40		40	●					●	●		●	●	●	●	●	●	●																		93
	FED60		60	●					●	●		●	●	●	●	●	●	●																		92
	FDC10W		10	●					●	●		●	●	●	●	●	●	●																		84
	FEC15W		15	●				●	●		●	●	●	●	●	●	●																			88
	FED20W		20	●				●	●		●	●	●	●	●	●	●																			89
	FED30W		30	●				●	●	●	●	●	●	●	●	●	●																			91
	FED30TW		30	●				●	●	●																										88
	EED40W		40	●				●	●		●	●	●	●	●	●	●																			93
	FED60W		60	●				●	●		●	●	●	●	●	●	●																			92
	RED20W		2"x1.6"	20	●			9 - 36 18 - 75 43 - 160	●	●																									89	2250 VDC
	RED40W	40		●			9 - 36 18 - 75	●	●																							93	3000 VDC			
	RED60W	60		●			36 - 160	●	●																							94				
	RHD40W	40		●			36 - 160	●	●																							90	3000 VAC			
	RED40U	40		●	●			9 - 75 14 - 160	●	●																						90	3000 VDC			
	FEC30	2"x1.6"	30	●			9 - 18 18 - 36 36 - 75	●	●																						90	1600 VDC	2.00	1.60	0.40	
	FEC30W		30	●			10 - 40 18 - 75	●	●																								88			
	FEC40	2"x2"	40	●			9 - 18 18 - 36 36 - 75	●	●	●																					90					
	FEC40W		40	●			9 - 36 18 - 75	●	●																								89			
	FEC60		60	●			18 - 36 36 - 75	●																									91			

ISOLATED DC/DC CONVERTERS



Quarter Brick | Half Brick



Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Triple Output	Output Voltage										Eff. (%)	Isolation Voltage	Dimensions (Inch)				
			12:1/8:1	4:1	2:1					3:3 Vout	5:0 Vout	5:1 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout			±5 Vout	±12 Vout	±15 Vout	±24 Vout	L
QAE40U	1/4 Brick	40	●				●			●	●	●	●	●	●	●	●	●	●	●	●	91	3000 VAC 2250 VDC	2.28	1.45	0.50
QAE60U		60	●			9 – 75 14 – 160	●			●	●	●	●	●	●	●	●	●	●	●	●	91				
QAE100U		100	●				●			●	●	●	●	●	●	●	●	●	●	●	●	90				
QAE100		108	●	●		8.5 – 22 16.5 – 36	●			●	●	●	●	●	●	●	●	●	●	●	●	93	2250 VDC			
QAE150		150	●	●		33 – 75	●			●	●	●	●	●	●	●	●	●	●	●	●	92				
QAE100W		90	●	●		8.5 – 36 16.5 – 75	●			●	●	●	●	●	●	●	●	●	●	●	●	90	3000 VAC 2250 VDC			
QAE150W		132	●	●		40 – 160	●			●	●	●	●	●	●	●	●	●	●	●	●	90				
HAE100		1/2 Brick	100		●		9 – 18 18 – 36 36 – 75	●			●	●	●	●	●	●	●	●	●	●	●	93	3000 VDC			
HAE150	196			●		8.5 – 22 16.5 – 36	●			●	●	●	●	●	●	●	●	●	●	●	93					
HAE200	255			●		33 – 75	●			●	●	●	●	●	●	●	●	●	●	●	93					
HAE75W	75		●	●		9 – 36 18 – 75 43 – 160	●			●	●	●	●	●	●	●	●	●	●	●	91	3000 VAC 3000 VDC				
HAE100W	100		●	●			●			●	●	●	●	●	●	●	●	●	●	●	93					
HAE150W	182		●	●		8.5 – 36 16.5 – 75 43 – 160	●			●	●	●	●	●	●	●	●	●	●	●	91					
HAE200W	240		●	●			●			●	●	●	●	●	●	●	●	●	●	●	91					
HAE150U	150		●	●		16 – 160	●			●	●	●	●	●	●	●	●	●	●	●	●	93	3000 VAC			
HAE200U	200		●	●				●			●	●	●	●	●	●	●	●	●	●	●	93				

ISOLATED DC/DC CONVERTERS



Chassis Mount | Din-rail

Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Output Voltage													Eff. (%)	Isolation Voltage	Dimensions (Inch)									
			12:1/8:1	4:1	2:1		Single Output	Dual Output	Triple Output	3:3 Vout	5:0 Vout	5:1 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout			+5 Vout	+12 Vout	+15 Vout	+24 Vout	L	W	H			
UFED20	*Chassis Din-rail	20		●		9.5 – 18	●	●																			1600 VDC	4.00	2.25	0.75	
UFEC30		30		●		18 – 36	●	●																							
UFEC40		40		●		36 – 75	●	●	●																						
UFEC60		60		●		18 – 36	●																								
UFEC15W		15		●		9.5 – 36	●	●																							
UFED20W		20		●		18 – 75	●	●																							
URED20W		20		●		9 – 36	●	●																							2250 VDC
UFEC30W		30		●		10 – 40	●	●																							1600 VDC
UFED40W		40		●		18 – 75	●	●																							3000 VDC 1600 VDC
UFEC40W		40		●		9.5 – 36	●	●																							1600 VDC
HAE100-T	*Chassis	100		●		9 – 18	●																				3000 VDC	3.35	2.40	1.59	
HAE150-T		196		●		8.5 – 22	●																								
HAE200-T		255		●		16.5 – 36	●																								
HAE75W-T		75		●		33 – 75	●																								
HAE100W-T		100		●		9 – 36	●																								
HAE150W-T		182		●		18 – 75	●																								
HAE200W-T		240		●		43 – 160	●																								
WAF150W		150		●		9 – 36	●																								3000 VDC 2250 VDC
WAF300W	300		●		18 – 75	●																				3000 VAC	6.00	4.00	1.52		

*Chassis: Chassis mount

**POWER SOLUTIONS
FOR
RAILWAY
APPLICATIONS**



Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Output Voltage													Eff. (%)	Isolation Voltage	Dimensions (Inch)		
			12:1/8:1	4:1	2:1		Single Output	Dual Output	3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout			±5 Vout	±12 Vout	±15 Vout
RDL03W	SIP-8	3	●		9 – 36 18 – 75 43 – 160	● ●	● ● ●	● ● ●	● ● ● ●									● ● ● ●	83	3000 VDC	0.86	0.36	0.44	
RDL06W		6	●			● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ●	87					
RDL10W		10	●			● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●					89
FKC08W	DIP-24	8	●		36 – 160	● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●	88a	1600 VDC	1.25	0.80	0.40	
RHK03W		3	●			● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●	85	3000 VAC				
RHK06W		6	●			● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●	86.5					
RHK10W		10	●			● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●	88					
RCD10W	1"x1"	10	●		9 – 36 18 – 75 36 – 160	● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ● ●	90	3000 VDC	1.00	1.00	0.39	
RCD15W		15	●			● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ● ●	91					
RCD20W		20	●			● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ● ●	91	3000 VDC 2250 VDC				
RCD30W		30	●			● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ● ●	92					
RCD10U		10	●			9 – 75 14 – 160	● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●	88				3000 VDC
RCD20U	20	●		● ● ● ●	● ● ● ●	● ● ● ●										● ● ● ●	88							
RHM20W	1.6"x1"	20	●		36 – 160	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ●	90.5	3000 VAC	1.60	1.00	0.40		
RED20W	2"x1"	20	●		9 – 36 18 – 75 43 – 160	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ●	89	2250 VDC	2.00	1.00	0.40		
RED40W		40	●		9 – 36 18 – 75	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ● ●	93	3000 VDC					
RED60W		60	●		36 – 160	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ● ●	94	3000 VDC					
RHD40W		40	●		36 – 160	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ●	90	3000 VAC					
RED40U		40	●		9 – 75 14 – 160	● ● ● ●	● ● ● ●	● ● ● ●									● ● ● ●	90	3000 VDC					
QAE40U	1/4 Brick	40	●		9 – 75 14 – 160	● ● ● ●	● ● ● ●	● ● ● ● ●									● ● ● ●	91	3000 VAC 2250 VDC	2.28	1.45	0.50		
QAE60U		60	●			● ● ● ●	● ● ● ● ●	● ● ● ● ●									● ● ● ●	91						
QAE100U		100	●			● ● ● ●	● ● ● ● ●	● ● ● ● ●									● ● ● ●	90						
QAE100W		90	●		8.5 – 36 16.5 – 75	● ● ● ●	● ● ● ●	● ● ● ● ●									● ● ● ●	90						
QAE150W		132	●		40 – 160	● ● ● ●	● ● ● ●	● ● ● ● ●									● ● ● ●	90						

**POWER SOLUTIONS
FOR
RAILWAY
APPLICATIONS**



Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Output Voltage												Eff. (%)	Isolation Voltage	Dimensions (Inch)		
			12:1/8:1	4:1	2:1				3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout	±5 Vout			±12 Vout	±15 Vout	±24 Vout
HAE75W	1/2 Brick	75	●			9 – 36 18 – 75 43 – 160	●	●	●	●	●	●	●	●	●	●	●	●	91	3000 VAC 3000 VDC	2.40	2.28	0.50		
HAE100W		100	●			8.5 – 36 16.5 – 75 43 – 160	●	●	●	●	●	●	●	●	●	●	●	●	93						
HAE150W		182	●				●	●	●	●	●	●	●	●	●	●	●	●	●					91	
HAE200W		240	●			●	●	●	●	●	●	●	●	●	●	●	●	●	91						
HAE150U		150	●			16 – 160	●	●	●	●	●	●	●	●	●	●	●	●	92.5						
HAE200U		200	●				●	●	●	●	●	●	●	●	●	●	●	●	●					92	
URED20W	*Chassis	20	●			9 – 36 18 – 75 43 – 160	●	●	●	●	●	●	●	●	●	●	●	●	88	2250 VDC	4.00	2.25	0.75		
UFED40W		40	●			9.5 – 36 18 – 75 43 – 160	●	●	●	●	●	●	●	●	●	●	●	●	91	3000 VDC 1600 VDC					
HAE75W-T	*Chassis	75	●			9 – 36 18 – 75 43 – 160	●	●	●	●	●	●	●	●	●	●	●	●	91	3000 VAC 3000 VDC	3.35	2.40	1.59		
HAE100W-T		100	●			8.5 – 36 16.5 – 75 43 – 160	●	●	●	●	●	●	●	●	●	●	●	●	93						
HAE150W-T		182	●				●	●	●	●	●	●	●	●	●	●	●	●	●					91	
HAE200W-T		240	●			●	●	●	●	●	●	●	●	●	●	●	●	●	91						
WAF150W		150	●			9 – 36 18 – 75 43 – 160	●			●	●	●	●	●	●	●	●	89	3000 VDC 2250 VDC	3.86	2.56	0.67			
WAF300W	*Chassis Din-rail	200	●			18 – 75 43 – 160	●			●	●	●	●	●	●	●	●	92	3000 VAC	6.00	4.00	1.52			

*Chassis: Chassis mount

**POWER SOLUTIONS
FOR
MEDICAL
APPLICATIONS**
AC/DC Power Supplies



Medical

Series	Open Frame Enclosed Encapsulated	Pin Connection Type	Output Power (W)		Input Voltage (VAC)	Single Output	Dual Output	Triple Output	Output Voltage												Eff. (%)	Leakage Current (µA)	Isolation Voltage (VAC)	Dimensions (Inch)		
			Con.	Peak					3.3 Vout	5.0 Vout	7.5 Vout	9.0 Vout	12 Vout	15 Vout	18 Vout	24 Vout	28 Vout	36 Vout	48 Vout	53 Vout				54 Vout	L	W
MSC15		● ●	15		85 – 264	●			● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	89	75	4000	2.82	1.14	0.82											
MSD30		● ●	30	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		91.5	100	3.95	1.50	1.00																
MSD40		● ●	40	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		93	75	4.30	2.20	1.20																
MSD65		● ●	65	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		93.5	75	4.30	2.20	1.20																
MAC15	●		15	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		89	75	2.61	1.00	0.62																
MAD30	●		30	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		91.5	100	3.34	1.36	0.77																
MAD40 Single	● ●		40	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		93	75	3.00	2.00	0.94																
MAD40 Multi	● ●		40	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		90	75	3.50	2.00	0.98																
MAD65 Single	● ●		65	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		93.5	75	3.00	2.00	0.94																
MAD65 Multi	● ●		65	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		90.5	75	3.50	2.00	0.98																
MAD50	● ● ● ●		50 70	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		92.5	100	3.00	1.50	1.08																
MAD100	● ●		100	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		92	75	3.00	2.00	1.16																
MAF150	● ●		150	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		92	100	4.00	2.00	1.16																
MAD180	● ●		180 220	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		94	100	3.00	2.00	1.24																
MAH240	●		240 300	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		91	100	5.00	3.00	1.32																
MAF300	● ●		300 360	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		93	100	4.00	2.09	1.26																
MAH450	● ●		450	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		94	100	5.00	3.00	1.58																

**POWER SOLUTIONS
FOR
MEDICAL
APPLICATIONS**
DC/DC Converters



Medical

Series	Footprint	Output Power (W)	Input Ratio		Input Voltage (VDC)	Single Output	Dual Output	Output Voltage								Eff. (%)	Leakage Current (µA)	Clearance Creepage (mm)	Isolation Voltage	Dimensions (Inch)			
			4:1	2:1				3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	±5 Vout					±12 Vout	±15 Vout	L	W
MPU01	SIP-9	1			4.5 – 5.5 9.6 – 14.4 12 – 18 19.2 – 28.8	● ●	● ●					● ●		● ● ●	85	2	8	2MOPP 5000 VAC	0.77	0.49	0.39		
MPU02		2			4.5 – 7 9.6 – 14.4 12 – 18 19.2 – 28.8	● ●	● ●					● ●		● ● ●	84				0.86	0.39	0.40		
MPL02	SIP-8	2	●		4.5 – 12 9 – 18 18 – 36	● ●	● ●					● ●		● ● ●	85				0.95	0.57	0.40		
MPS02	SMD-16 DIP-16	2	●		4.5 – 12 9 – 18	● ●	● ●					● ● ● ●		● ● ●	82				1.25	0.80	0.40		
MPS04 MPH04		3.5	●		18 – 36 36 – 75	● ●	●					● ● ● ●		● ● ●	83				1.60	1.00	0.40		
MPP03	DIP-24	3	●			● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	87				2.00	1.00	0.40		
MPP06		6	●		4.5 – 9 9 – 18	● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	89				2.28	1.45	0.50		
MPK06		6	●		18 – 36 36 – 75	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	87								
MPP10		10	●			● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	89								
MPP03W		3	●			● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	87								
MPP06W		6	●		9 – 36 18 – 75	● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	89								
MPP10W		10	●			● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	89								
MPM15		1.6"x1"	15	●		9 – 18 18 – 36	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●				90				
MPM20	20		●		36 – 75	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	90								
MPM15W	15		●		9 – 36	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	89.5								
MPM20W	20		●		18 – 75	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	89								
MPD30	2"x1"	30	●		9 – 18 18 – 36 36 – 75	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	90.5								
MPD30W		30	●		9 – 36 18 – 75	● ●	●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	90.5								
MPQ60W	1/4 Brick	60	●		9 – 36 18 – 75	● ●	● ●					● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ●	92.5				4.5	8			



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