



**P-DUKE**  
**POWER**

*Innovative Power for your Visions.*



Industrial



Railway



Medical



Defense

## DC/DC Converters AC/DC Power Supplies

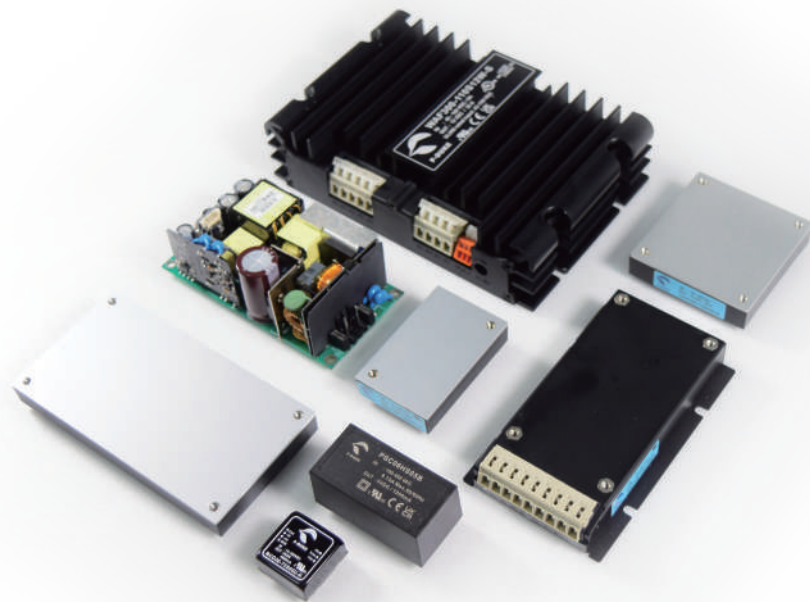
Product Portfolio

## World Headquarters

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TEL:+886-4-2359-0668  
FAX:+886-4-2359-1337  
E-MAIL:sales@pduke.com  
WEB:www.pduke.com

## U.S.A Subsidiary

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717 Brea Canyon Road, Suite#1 Walnut, CA 91789  
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# 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.



**2021**

Construction work on the new extension building begun

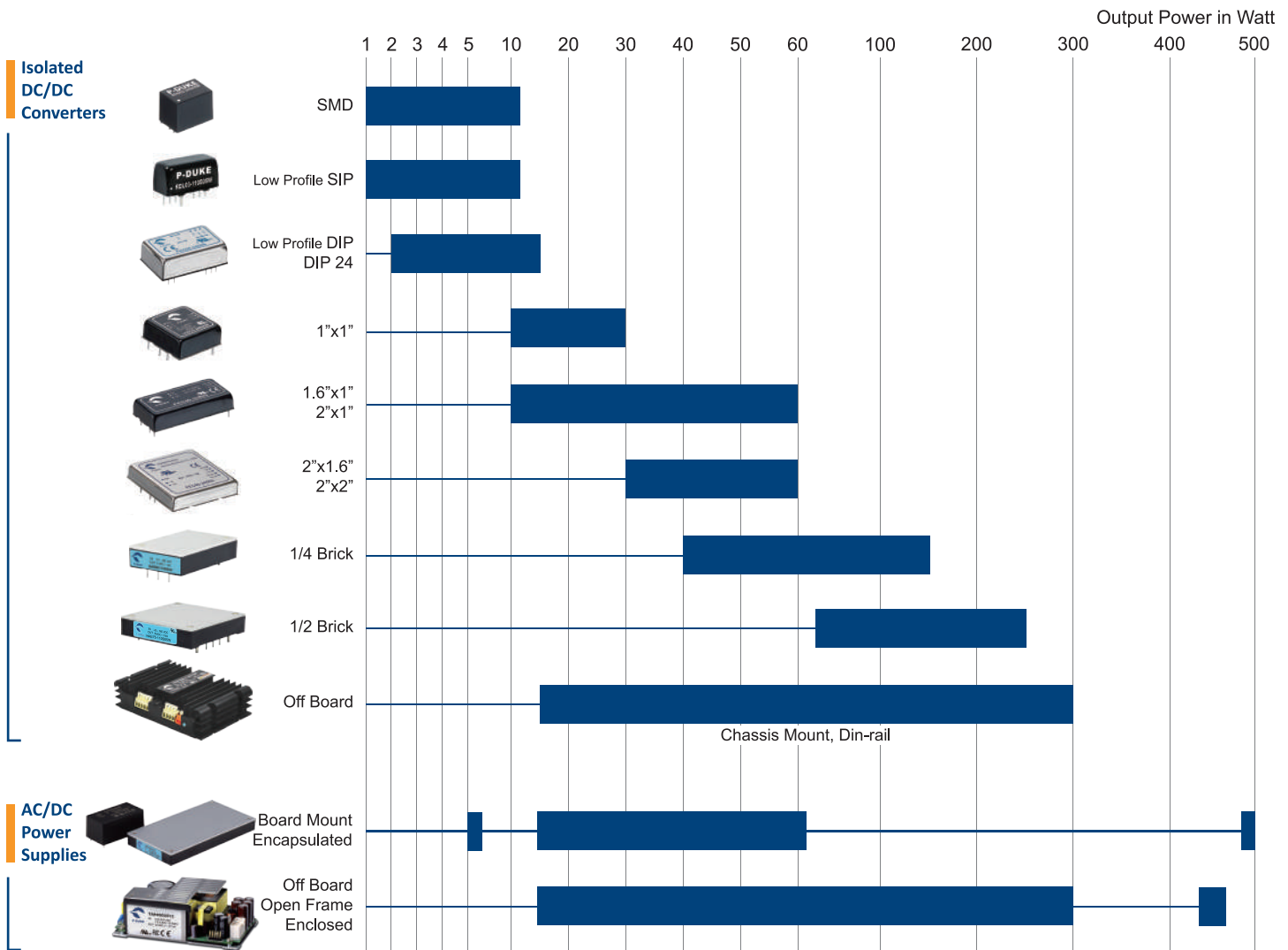
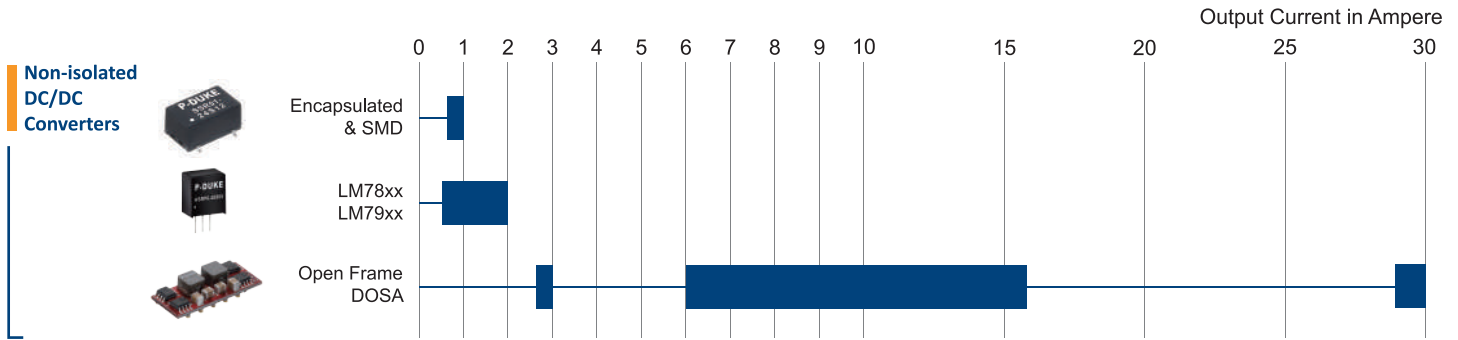
## Various Applications in the High-tech Industry Exploring any Possibilities in each Application Field

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



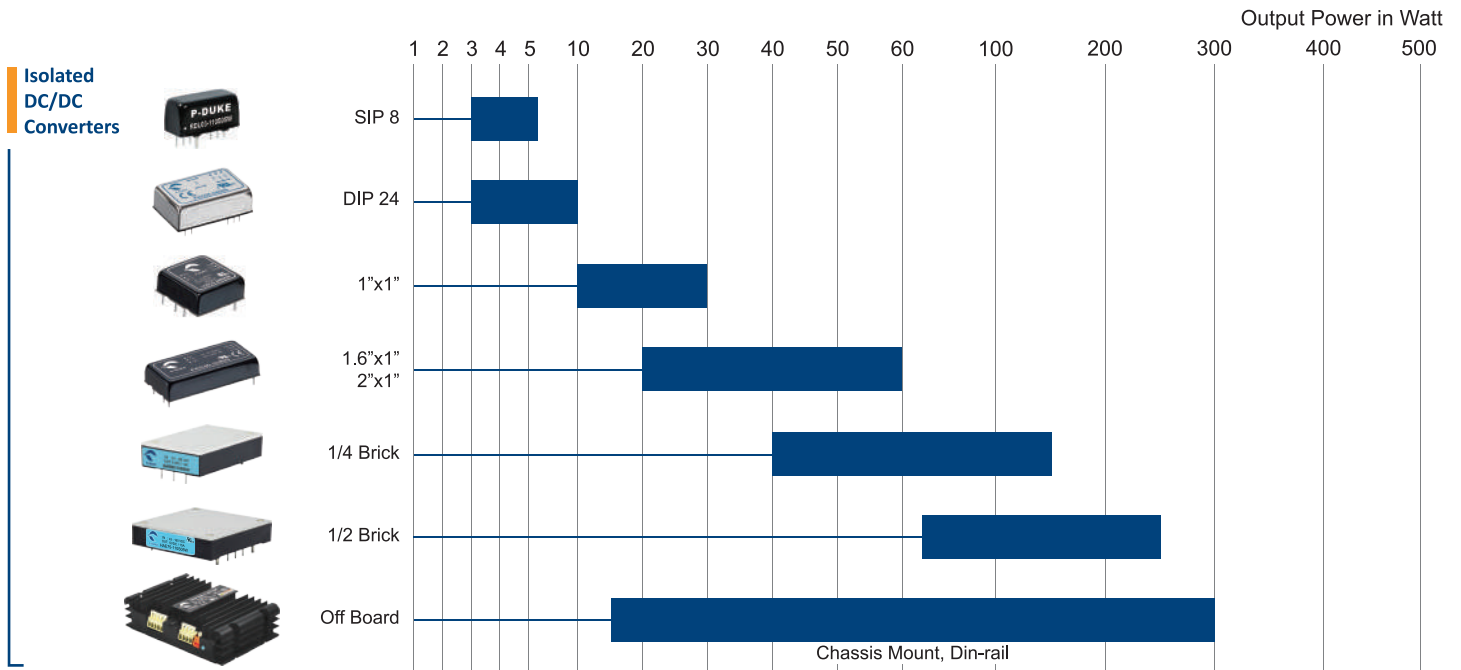


\*JST, Molex, and screw terminal block are available for AC/DC, please see datasheet for further information.

# RAILWAY



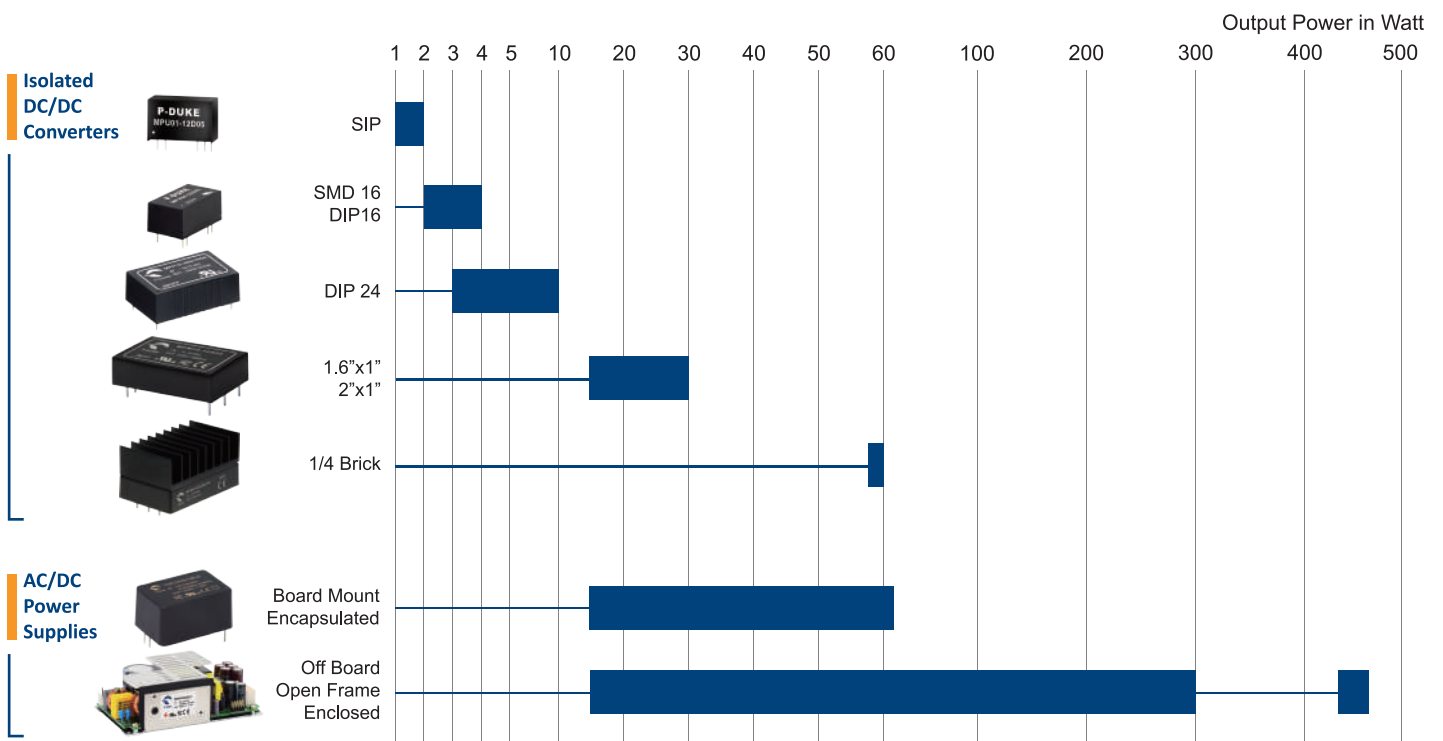
IEC 62368-1 | EN 50155 : 2017 | EN 45545-2 | EN 61373



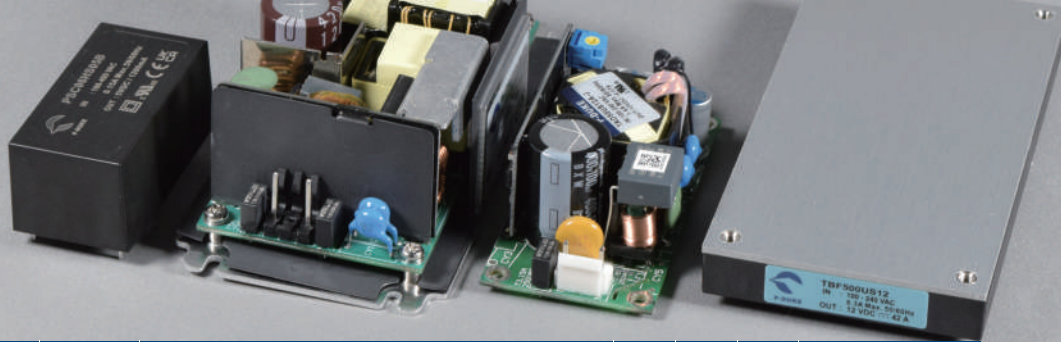
# MEDICAL



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

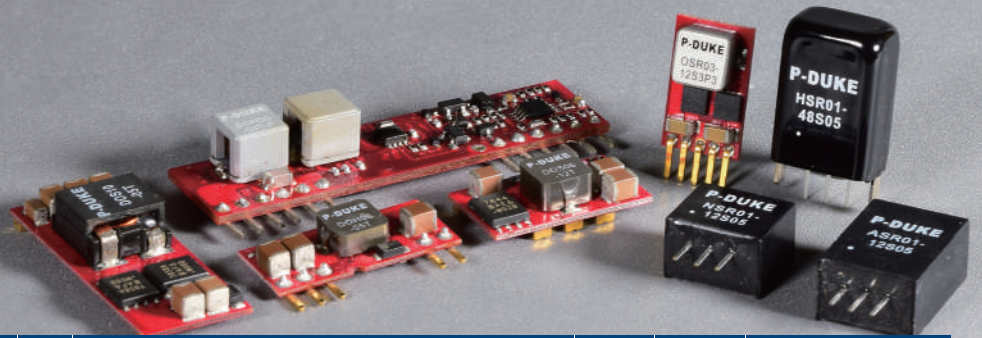


\*JST, Molex, and screw terminal block are available for AC/DC, please see datasheet for further information.



Series	Open Frame Enclosed Encapsulated		Output Power (W)		Input Voltage (VAC)	Single Output	Dual Output	Triple Output	Output Voltage										Eff. (%)	OCV III	Isolation Voltage (VAC)	Dimensions (Inch)		
	Pin Connection	Type	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
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
TAF300	● ●		300	360	●			●	●	●	●	●	●	●	●	●	●	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		

# NON-ISOLATED DC/DC CONVERTERS



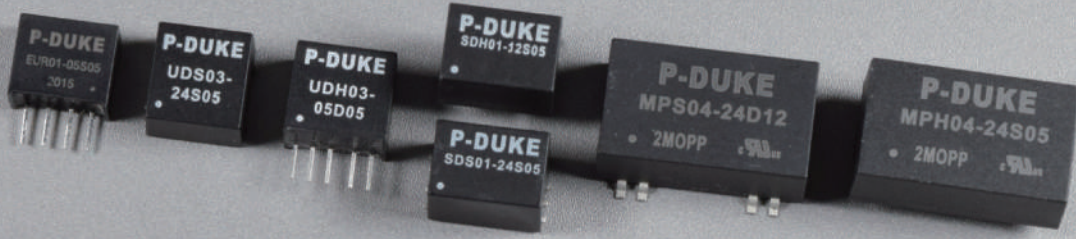
Series	Open Frame Encapsulated SMD Type Thru-hole Type	Output Current (A)	Input Voltage (VDC)	Negative Vout Available	Output Voltage												Eff. (%)	Isolation Voltage	Dimensions (Inch)			
					1.2 Vout	1.5 Vout	1.8 Vout	2.5 Vout	3.0 Vout	3.3 Vout	5.0 Vout	5.2 Vout	6.0 Vout	6.5 Vout	8.0 Vout	9.0 Vout			12 Vout	15 Vout	24 Vout	L
HSRP6	● ●	0.6	9 – 72							● ●									None	0.47	0.34	0.53
HSR01	● ●	1	9 – 72							● ●								0.48		0.34	0.69	
ASR01	● ●	1	-7 – -32		○							○ ○		○ ○	○ ○	○ ○		0.46		0.30	0.65	
NSR01	● ●	1	4.6 – 36	●	● ● ● ● ● ● ● ●							● ●		● ● ● ●				0.46		0.30	0.40	
PSR1.0	● ●	1	4.6 – 36		● ● ● ● ● ● ● ●							● ●		● ● ● ●				0.46		0.30	0.40	
LSR01	● ●	1	3.0 – 36		● ● ● ● ● ● ● ●							● ●		● ● ● ●				0.60		0.37	0.30	
SSR01	● ●	1	3.0 – 36	●						● ●				● ● ● ●				0.60		0.37	0.30	
PSR02	● ●	2	3.0 – 36		● ● ● ● ● ● ● ●							● ●		● ● ● ●				0.55		0.30	0.40	
OSR03	● ●	3	2.5 – 30	●									0.59 – 15 VDC					0.37		0.24	0.61	
DOS/H06	● ● ● ●	6	2.4 – 5.5 8.3 – 14										0.75 – 5.0 VDC					0.80		0.45	0.25	
DOS/H10	● ● ● ●	10												0.75 – 5.0 VDC						1.30	0.53	0.30
DOS/H16	● ● ● ●	16												0.75 – 5.0 VDC						1.30	0.53	0.30
DOS/H30	● ● ● ●	30		4.5 – 14										0.8 – 5.5 VDC						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
		1/2 Brick	150						2.28	1.45	0.50
		1/2 Brick	200						2.28	1.45	0.50

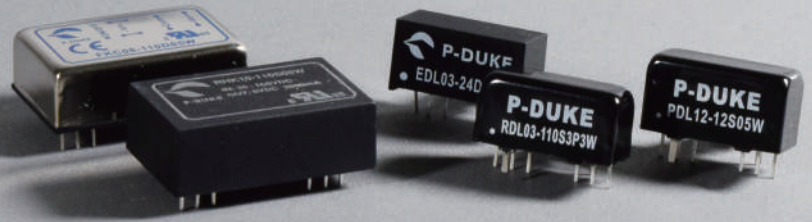


SMALL SIZE & LOW PROFILE PACKAGE

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)																				
						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	W	H																		
EUR01	SIP-4	1		3.3, 5, 12, 15, 24	●	● ● ● ● ● ● ●											81	3000 VDC 1600 VDC	0.45	0.24	0.39																				
DU1P0	SIP-7	1		5, 12, 15, 24	● ●	● ● ● ● ● ● ●											82	3000 VDC 1000 VDC	0.77	0.24	0.40																				
UDS01 UDH01	SMD-7 SIP-5	1	●	4.5 – 13.2	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											83	1600 VDC	0.47	0.44	0.31																				
UDS02 UDH02		2	●	9 – 18 18 – 36	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●																84	1600 VDC	0.47	0.44	0.31															
UDS03 UDH03		3	●	36 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●																					84	1600 VDC	0.47	0.44	0.31										
SDS01 SDH01	SMD-8 DIP-8	1	●	4.5 – 9 9 – 18	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											83	3000 VDC 1600 VDC	0.52	0.36	0.40																				
SDS02 SDH02		2	●	18 – 36 36 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											86					3000 VDC 1600 VDC	0.52	0.36	0.40																
SDS05 SDH05		5	●	4.5 – 13.2 9 – 18 18 – 36 36 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											86									3000 VDC 1600 VDC	0.52	0.36	0.40												
SDS01W SDH01W		1	●	4.5 – 18	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											81													3000 VDC 1600 VDC	0.52	0.36	0.40								
SDS02W SDH02W		2	●	9 – 36 18 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											84																	3000 VDC 1600 VDC	0.52	0.36	0.40				
SDS03W SDH03W		3	●	18 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											84																					3000 VDC 1600 VDC	0.52	0.36	0.40
SDS05W SDH05W		5	●	9 – 36 18 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											84																								
PDS02 PDH02	SMD-14 DIP-14	2	●	4.5 – 9 9 – 18	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											84	3000 VDC 1600 VDC	0.74	0.50	0.34																				
PDS03 PDH03		3	●	18 – 36 36 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											83					3000 VDC 1600 VDC	0.74	0.50	0.34																
PDS02W PDH02W		2	●	4.5 – 18	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											82									3000 VDC 1600 VDC	0.74	0.50	0.34												
PDS03W PDH03W		3	●	9 – 36 18 – 75	● ●	● ● ● ● ● ● ● ● ● ● ● ● ●											83													3000 VDC 1600 VDC	0.74	0.50	0.34								



# 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					
RDL03W	3	●		9 – 36 18 – 75	●	●		●	●		●	●	●	●		●	●	●	83	3000 VDC					
RDL06W	6	●		43 – 160	●	●		●	●		●	●	●	●		●	●	●	88						
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	DIP-24	5	●		4.5 – 12 9 – 36 18 – 75	●	●		●	●		●	●	●		●	●	●	89	3000 VAC					
RHK03W		3	●		36 – 160	●	●		●	●		●	●	●		●	●	●	85						
RHK06W		6	●			●	●		●	●		●	●	●	●		●	●	●		86.5				
RHK10W		10	●			●	●		●	●		●	●	●	●		●	●	●		88				

# ISOLATED DC/DC CONVERTERS



Industrial

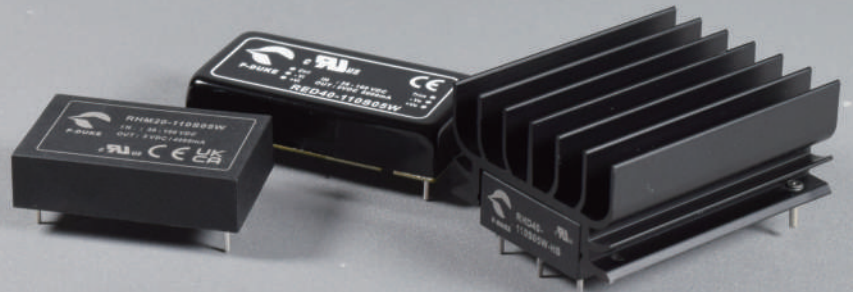
1"x1"



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	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	H					
LCD10	1"x1"	10		●	9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●		1600 VDC	1.00	1.00	0.39	
LCD15		15		●		●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●						
LCD20		20		●		●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●						
LCD30		30		●		●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●						
LCD10W		10	●		9 – 36 18 – 75	●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●						
LCD15W		15	●	●		●		●	●		●	●	●		●	●	●		●	●	●		●	●	●							
LCD20W		20	●	●		●		●	●		●	●	●		●	●	●		●	●	●		●	●	●							
LCD30W		30	●	●		●		●	●		●	●	●		●	●	●		●	●	●		●	●	●							
RCD15		15		●	9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●						3000 VDC 1600 VDC
RCD10W		10	●		9 – 36 18 – 75 36 – 160	●	●		●	●		●	●	●		●	●	●		●	●	●		●	●	●						3000 VDC
RCD15W		15	●	●		●		●	●		●	●	●		●	●	●		●	●	●		●	●	●							
RCD20W		20	●	●		●		●	●		●	●	●		●	●	●		●	●	●		●	●	●		3000 VDC 2250 VDC					
RCD30W		30	●	●		●		●	●		●	●	●		●	●	●		●	●	●		●	●	●							
RCD10U		10	●		9 – 75 14 – 160	●	●		●	●	●		●	●	●		●	●	●		●	●	●		●	●	●					
RCD20U	20	●	●	●			●	●		●	●	●		●	●	●		●	●	●		●	●	●								
LED15	15		●	18 – 36 36 – 75	●							●	●											●	●	●		2250 VDC	1.10	0.94	0.33	
LED15W	15	●	●	9 – 36 18 – 75	●			●	●			●	●											●	●	●		87				



# ISOLATED DC/DC CONVERTERS



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		●				9 - 36 18 - 75	●	●																						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
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		2.00	2.00	0.40	
FEC40W		40		●		9 - 36 18 - 75	●	●																			89					
FEC60		60		●		18 - 36 36 - 75	●																				91					

# 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 36 – 75	●																								
UFEC15W		15		●		9.5 – 36	●	●																							
UFED20W		20		●		18 – 75	●	●																							
URED20W		20		●		9 – 36 18 – 75 43 – 160	●	●																							2250 VDC
UFEC30W		30		●		10 – 40 18 – 75	●	●																							1600 VDC
UFED40W		40		●		9.5 – 36 18 – 75 43 – 160	●	●																							3000 VDC 1600 VDC
UFEC40W		40		●		9.5 – 36 18 – 75	●	●																							1600 VDC
HAE100-T	*Chassis	100		●		9 – 18 18 – 36 36 – 75	●																				3000 VDC	3.35	2.40	1.59	
HAE150-T		196		●		8.5 – 22 16.5 – 36	●																								
HAE200-T		255		●		33 – 75	●																								
HAE75W-T		75		●		9 – 36 18 – 75 43 – 160	●																								
HAE100W-T		100		●		8.5 – 36	●																								3000 VAC 3000 VDC
HAE150W-T		182		●		16.5 – 75 43 – 160	●																								
HAE200W-T		240		●			●																								
WAF150W		*Chassis	150		●		9 – 36 18 – 75 43 – 160	●																							3000 VDC 2250 VDC
WAF300W	*Chassis Din-rail	300		●		18 – 75 43 – 160	●																			3000 VAC	6.00	4.00	1.52		

\*Chassis: Chassis mount



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	±24 Vout	L
RDL03W	SIP-8	3	●		9 – 36	● ●	● ●	● ●	● ●	● ●	● ●							● ●	● ●	● ●	83	3000 VDC	0.86	0.36	0.44	
RDL06W		6	●		18 – 75 43 – 160	● ●	● ●	● ●	● ●	● ●	● ●							● ●	● ●	● ●	87					
FKC08W	DIP-24	8	●			● ●	● ●		● ●	● ●								● ●	● ●	● ●	88	1600 VDC	1.25	0.80	0.40	
RHK03W		3	●			● ●	● ●		● ●	● ●								● ●	● ●	● ●	85	3000 VAC				
RHK06W		6	●		36 – 160	● ●	● ●		● ●	● ●								● ●	● ●	● ●	86.5					
RHK10W		10	●			● ●	● ●		● ●	● ●								● ●	● ●	● ●	88					
RCD10W	1"x1"	10	●			● ●	● ●		● ●	● ●								● ●	● ●	● ●	90	3000 VDC	1.00	1.00	0.39	
RCD15W		15	●		9 – 36 18 – 75 36 – 160	● ●	● ●		● ●	● ●								● ●	● ●	● ●	91					
RCD20W		20	●			● ●	● ●		● ●	● ●									● ●	● ●	● ●	91				3000 VDC 2250 VDC
RCD30W		30	●			● ●	● ●		● ●	● ●									● ●	● ●	● ●	92				
RCD10U		10	●		9 – 75	● ●	● ●		● ●	● ●									● ●	● ●	● ●	88				3000 VDC
RCD20U		20	●		14 – 160	● ●	● ●		● ●	● ●									● ●	● ●	● ●	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 36 – 160	● ●	● ●		● ●	● ●								● ●	● ●	● ●	93	3000 VDC				
RED60W		60	●			● ●	● ●		● ●	● ●									● ●	● ●	● ●	94				3000 VDC
RHD40W		40	●		36 – 160	● ●		● ●	● ●	● ●									● ●	● ●	● ●	90				3000 VAC
RED40U		40	●		9 – 75 14 – 160	● ●	● ●		● ●	● ●									● ●	● ●	● ●	90				3000 VDC
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
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	L	W	H							
HAE75W	1/2 Brick	75	●			9 – 36 18 – 75 43 – 160	●	● ●	● ● ● ● ● ● ● ●	●																3000 VAC 3000 VDC	2.40	2.28	0.50						
HAE100W		100	●			8.5 – 36	●	● ●	● ● ● ● ● ● ● ●	●																									
HAE150W		182	●			16.5 – 75 43 – 160	●	● ●	● ● ● ● ● ● ● ●	●																									
HAE200W		240	●				●	● ●	● ● ● ● ● ● ● ●	●																									
HAE150U		150	●			16 – 160	●	● ●	● ● ● ● ● ● ● ●	●																									
HAE200U		200	●				●	● ●	● ● ● ● ● ● ● ●	●																									
URED20W	*Chassis	20	●			9 – 36 18 – 75 43 – 160	● ●	● ●	● ● ● ● ● ● ● ●	● ●																	2250 VDC	4.00	2.25	0.75					
UFED40W		40	●			9.5 – 36 18 – 75 43 – 160	● ●	● ●	● ● ● ● ● ● ● ●	● ● ● ●																									
HAE75W-T	*Chassis	75	●			9 – 36 18 – 75 43 – 160	●	● ●	● ● ● ● ● ● ● ●	●																3000 VAC 3000 VDC	3.35	2.40	1.59						
HAE100W-T		100	●			8.5 – 36	●	● ●	● ● ● ● ● ● ● ●	●																									
HAE150W-T		182	●			16.5 – 75 43 – 160	●	● ●	● ● ● ● ● ● ● ●	● ●																									
HAE200W-T		240	●				●	● ●	● ● ● ● ● ● ● ●	● ●																									
WAF150W	*Chassis Din-rail	150	●			9 – 36 18 – 75 43 – 160	●		● ● ● ● ● ● ● ●	●																3000 VDC 2250 VDC	3.86	2.56	0.67						
WAF300W		200	●			18 – 75 43 – 160	●		● ● ● ● ● ● ● ●	●																									

\*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													
MAD65 Single	● ●		65	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		93.5	75	3.00	2.00		0.94													
MAD40 Multi	● ●		40	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●		90	75	3.50	2.00		0.98													
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													
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	2	●		4.5 – 12 9 – 18	● ●	● ●	● ●	● ● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	82	2				8	2MOPP 5000 VAC	1.25	0.80	0.40
MPS04																							
MPP03	DIP-24	3	●	4.5 – 9 9 – 18 18 – 36 36 – 75	● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	87										
MPP06		6	●		● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	89										
MPK06		6	●		● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	87										
MPP10		10	●		● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	89										
MPP03W		3	●		9 – 36 18 – 75	● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	87									
MPP06W		6	●			● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	89									
MPP10W		10	●			● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	89									
MPM15		1.6"x1"	15			●	9 – 18 18 – 36	● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●									
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	2.00	1.00				0.40				
MPD30W		30	●	9 – 36 18 – 75	● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	90.5										
MPQ60W	1/4 Brick	60	●	9 – 36 18 – 75	● ●	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	92.5	4.5	8	2.28	1.45	0.50					



