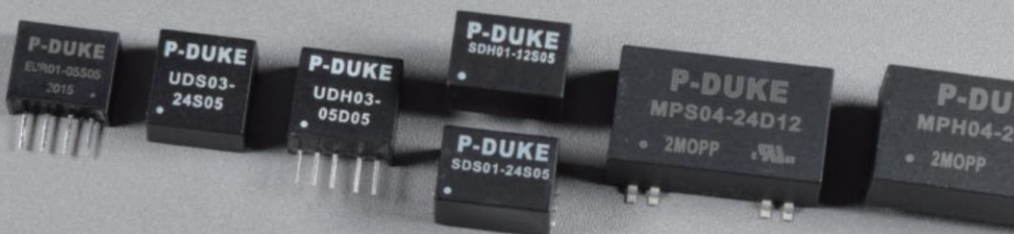


ISOLATED DC/DC CONVERTERS

SMALL SIZE & LOW PROFILE PACKAGE

ISOLATED DC/DC CONVERTERS



SMALL SIZE & LOW PROFILE PACKAGE

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	9.0 Vout	12 Vout	15 Vout	24 Vout	48 Vout	53 Vout	±5 Vout			±12 Vout	±15 Vout	±24 Vout
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	SMD-7 SIP-5	1		●		4.5 – 13.2	●	●			●	●	●	●	●			●	●	83	1600 VDC	0.47	0.44	0.31
UDS02		2		●		9 – 18	●	●			●	●	●	●	●			●	●	84				
UDH02		2		●		18 – 36	●	●			●	●	●	●	●			●	●	84				
UDS03		3		●		36 – 75	●	●			●	●	●	●	●			●	●	84				
UDH03																								
SDS01	SMD-8 DIP-8	1		●		4.5 – 9 9 – 18	●	●			●	●	●	●	●			●	●	83	3000 VDC 1600 VDC	0.52	0.36	0.40
SDH01		2		●		18 – 36 36 – 75	●	●			●	●	●	●	●			●	●	86				
SDS02		2		●		18 – 36 36 – 75	●	●			●	●	●	●	●			●	●	86				
SDH02		2		●		18 – 36 36 – 75	●	●			●	●	●	●	●			●	●	86				
SDS05		5		●		4.5 – 13.2 9 – 18 18 – 36 36 – 75	●	●			●	●	●	●	●			●	●	86				
SDH05		5		●		4.5 – 13.2 9 – 18 18 – 36 36 – 75	●	●			●	●	●	●	●			●	●	86				
SDS01W		1		●		4.5 – 18	●	●			●	●	●	●	●			●	●	81				
SDH01W		1		●		4.5 – 18	●	●			●	●	●	●	●			●	●	81				
SDS02W		2		●		9 – 36	●	●			●	●	●	●	●			●	●	84				
SDH02W		2		●		9 – 36	●	●			●	●	●	●	●			●	●	84				
SDS03W	3		●		18 – 75	●	●			●	●	●	●	●			●	●	84					
SDH03W	3		●		18 – 75	●	●			●	●	●	●	●			●	●	84					
SDS05W	5		●		9 – 36 18 – 75	●	●			●	●	●	●	●			●	●	84					
SDH05W	5		●		9 – 36 18 – 75	●	●			●	●	●	●	●			●	●	84					
PDS02	SMD-14 DIP-14	2		●		4.5 – 9 9 – 18	●	●			●	●	●	●			●	●	84	3000 VDC 1600 VDC	0.74	0.50	0.34	
PDH02		2		●		4.5 – 9 9 – 18	●	●			●	●	●	●			●	●	84					
PDS03		3		●		18 – 36 36 – 75	●	●			●	●	●	●			●	●	83					
PDH03		3		●		18 – 36 36 – 75	●	●			●	●	●	●			●	●	83					
PDS02W		2		●		4.5 – 18 9 – 36	●	●			●	●	●	●			●	●	82					
PDH02W		2		●		4.5 – 18 9 – 36	●	●			●	●	●	●			●	●	82					
PDS03W	3		●		18 – 75	●	●			●	●	●	●			●	●	83						
PDH03W	3		●		18 – 75	●	●			●	●	●	●			●	●	83						

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ISOLATED DC/DC CONVERTERS



1"x1"



DataSet



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	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	1.00	1.00	0.39	
RCD10W		10		●			●	●																												
RCD15W		15		●			●	●																												
RCD20W		20		●			●	●																												
RCD30W		30		●		36-160	●	●																								3000 VDC 2250 VDC	1.10	0.94	0.33	
RCD10U		10		●			●	●																												
RCD20U	20		●		●		●																													
LED15	15			●	18-36 36-75		●																													
LED15W	15		●			9-36 18-75	●																													

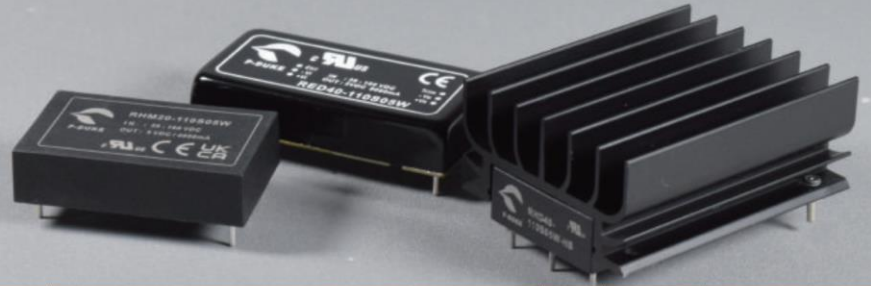
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ISOLATED DC/DC CONVERTERS

1.6" × 1" / 2" × 1" / 2" × 1.6" / 2" × 2"

ISOLATED DC/DC CONVERTERS



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

DataSheet	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	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			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		40		●		9 – 18 18 – 36 36 – 75	●	●	●				●	●											90						
↓	FEC40W	2"x2"	40		●		9 – 36 18 – 75	●	●					●	●											89			2.00	2.00	0.40	
↓	FEC60		60		●		18 – 36 36 – 75	●						●	●											91						

ISOLATED DC/DC CONVERTERS



Industrial

Quarter Brick | Half Brick



DataSheet



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	W	H
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	2.40	2.28	0.50				
HAE100W			100		●		●			●	●	●	●	●	●	●	●	●	●	93								
HAE150W			182		●	8.5 - 36 16.5 - 75 43 - 160	●			●	●	●	●	●	●	●	●	●	●	91								
HAE200W			240		●		●			●	●	●	●	●	●	●	●	●	●	91								
HAE150U			150		●		●			●	●	●	●	●	●	●	●	●	●	93	3000 VAC							
HAE200U			200		●	16 - 160	●			●	●	●	●	●	●	●	●	●	●	93								

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ISOLATED DC/DC CONVERTERS

Chassis Mount / Din-rail

ISOLATED DC/DC CONVERTERS



Industrial

Chassis Mount | Din-rail

DataSheet

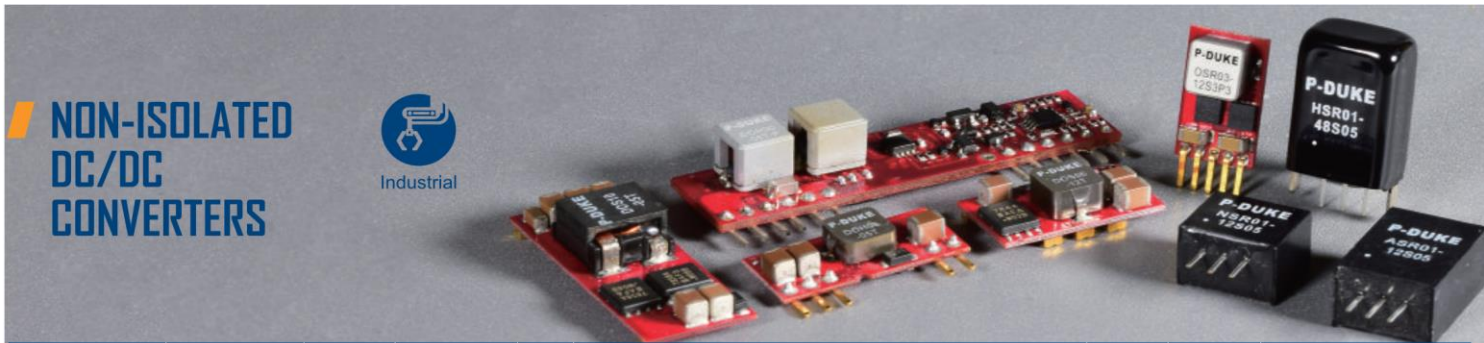


Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Output Voltage											Eff. (%)	Isolation Voltage	Dimensions (Inch)								
			12:1/8:1	4:1	2:1		Single Output	Dual Output	Triple Output	3.3 Vout	5.0 Vout	5.1 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout			48 Vout	53 Vout	±5 Vout	±12 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	●																					
UFEC60		60		●		36 – 75																						
UFEC15W		15		●		9.5 – 36	●	●												●	●	●						
UFED20W		20		●		18 – 75	●	●												●	●	●						
URED20W		20		●		9 – 36	●	●													●	●						
URED20W		20		●		18 – 75	●	●																				
URED20W		20		●		43 – 160																						
UFEC30W	30		●		10 – 40	●	●																					
UFEC30W	30		●		18 – 75	●	●																					
UFED40W	40		●		9.5 – 36	●	●													●	●	●						
UFED40W	40		●		18 – 75	●	●																					
UFED40W	40		●		43 – 160																							
UFEC40W	40		●		9.5 – 36	●	●													●	●							
UFEC40W	40		●		18 – 75	●	●																					
HAE100-T	*Chassis	100		●		9 – 18	●																	3000 VDC	3.35	2.40	1.59	
HAE100-T		100		●		18 – 36																						
HAE100-T		100		●		36 – 75																						
HAE150-T		196		●		8.5 – 22	●																					
HAE150-T		196		●		16.5 – 36																						
HAE150-T		196		●		33 – 75	●																					
HAE75W-T		75		●		9 – 36	●																					
HAE75W-T		75		●		18 – 75	●																					
HAE75W-T		75		●		43 – 160																						
HAE100W-T		100		●		9 – 36	●																					
HAE100W-T	100		●		18 – 75																							
HAE100W-T	100		●		43 – 160																							
HAE150W-T	182		●		8.5 – 36	●																						
HAE150W-T	182		●		16.5 – 75																							
HAE150W-T	182		●		43 – 160																							
HAE200W-T	240		●			●																						
WAF150W	*Chassis	150		●		9 – 36	●																	3000 VDC 2250 VDC	3.86	2.56	0.67	
WAF150W	*Chassis	150		●		18 – 75																						
WAF150W	*Chassis	150		●		43 – 160																						
WAF300W	*Chassis Din-rail	300		●		18 – 75	●																	3000 VAC	6.00	4.00	1.52	
WAF300W	*Chassis Din-rail	300		●		43 – 160																						

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NON-ISOLATED DC/DC CONVERTERS

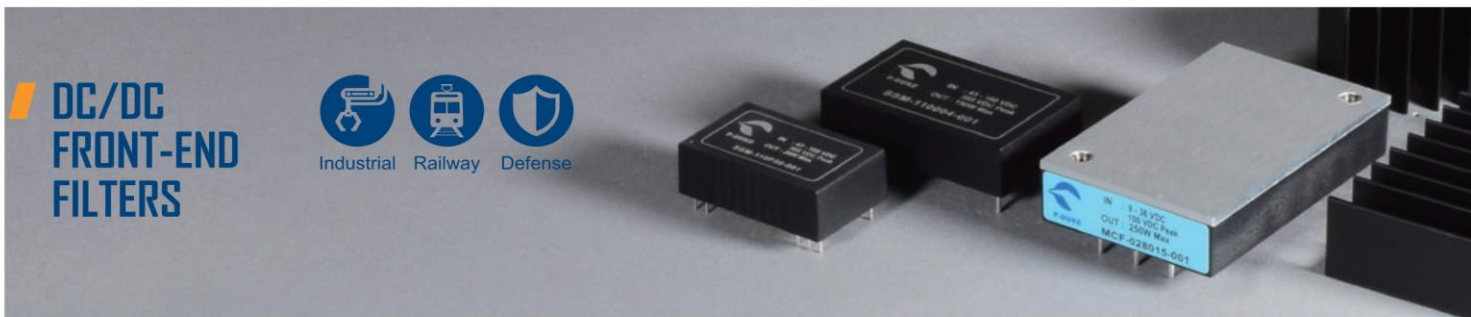


DataSheet

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
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



DataSheet

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-028005-001	● ●	1.6"x1"	45	28	9 – 36	100 V / 50 ms	40	RIA 12 Surge Susceptibility NF F 01-510 MIL-STD 1275D MIL-STD 461G	1.60	1.00	0.40
MCF-028015-001	● ●	1/4 Brick	250	28	9 – 36				2.28	1.45	0.50