

50W to 150W, 200 to 425VDC Input DC-DC Converters

Features

- ◆ 200 - 425VDC Input
- ◆ Base-plate Cooled
- ◆ Full Power at 100°C base plate
- ◆ Quarter Brick Footprint



Key Market Segments & Applications



Specifications					
Model					
Nominal Output Voltage	VDC	5V	12V	24V	48V
Input Voltage Range	VDC	200 - 425VDC			
Input Current	A	0.42 - 0.62A (model dependant)			
Output Voltage Adjustment	VDC	4 - 6	9.6 - 13.2	19.2 - 26.4	38.4 - 52.8
Ripple & Noise (max) pk-pk	mV	100	150	240	400
Line Regulation (max)	mV	10	24	48	96
Load Regulation (max)	mV	10	24	48	96
Overcurrent Protection	%	102 - 150% (Constant current style)			
Overvoltage Protection (1)	%	125 - 150	115 - 145	115 - 145	115 - 145
Remote Sense	-	Yes			
Remote On/Off	-	Yes; Low = ON, Open = OFF			
Operating Temperature	°C	-40°C to +100°C Base-plate, -40°C to +85°C Ambient			
Storage Temperature	°C	-55°C to +100°C			
Temperature Coefficient	%/°C	0.02%/°C			
Humidity (non condensing)	%RH	5 - 95% RH Operating and Non Operating			
Cooling	-	Conduction (See Installation Manual for heatsink selection)			
Withstand Voltage	VAC	Input to Base-plate: 2.5kVAC; Input to Output 3.0kVAC for 1 min.; Output to Base-plate: 500VAC for 1 min			
Isolation Resistance	-	>100M at 25°C and 70%RH, Output to Base plate 500VDC			
Vibration	-	Non Operating, 10-55Hz (sweep for 1 min.) Amplitude 0.825mm constant (Max 49 m/s ²) X,Y,Z 1 hour each			
Shock	-	196.1m/s ²			
Safety Agency Certifications	-	UL60950-1, CSA60950-1, EN60950-1, CE Mark			
Weight (Typ)	g	55			
Size (WxHxD)	in (mm)	1.46 x 0.5 x 2.30" (37.2 x 12.7 x 58.3)			
Warranty	-	5 Years			

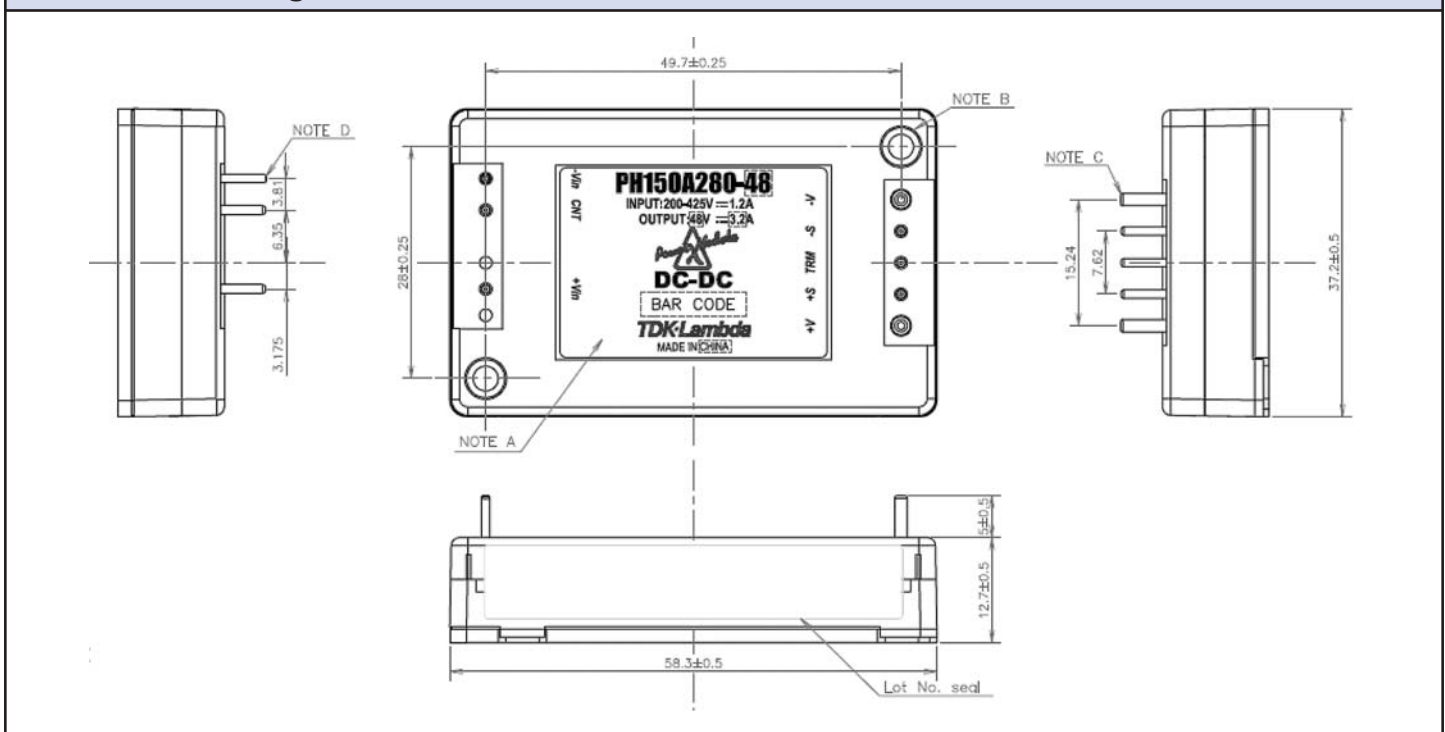
Note: See Installation Manual for full details, test methods of parameters and application notes

(1) Cycle input or remote on/off to reset

Model Selector

Model	Voltage (V)	Output Current (A)	Maximum Power (W)	Input Current (A)	Efficiency (%) (100% load, 280VDC In)
PH50A280-5	5	10	50.0	0.21	86
PH75A280-5	5	15	75.0	0.32	86
PH100A280-5	5	20	100.0	0.42	86
PH50A280-12	12	4.2	50.4	0.21	88
PH75A280-12	12	6.3	75.6	0.31	88
PH100A280-12	12	8.4	100.8	0.41	88
PH150A280-12	12	12.5	150.0	0.62	88
PH50A280-24	24	2.1	50.4	0.21	88
PH75A280-24	24	3.2	76.8	0.31	89
PH100A280-24	24	4.2	100.8	0.41	89
PH150A280-24	24	6.3	151.2	0.61	89
PH50A280-48	48	1.1	52.8	0.21	89
PH75A280-48	48	1.6	76.8	0.31	90
PH100A280-48	48	2.1	100.8	0.4	90
PH150A280-48	48	3.2	153.6	0.6	90

Outline Drawing



Other DC-DC Products

CN-A110 50 to 200W Quarter & Half Brick, 60 - 160VDC Input

For Additional Information, please visit us.tdk-lambda.com/lp/products/pha-series.htm

