

DEWE-POW-24-450

Key facts

- ▶ External AC/DC power supply
- ▶ Input: 100 to 240 V_{AC}; 50 to 60 Hz
- ▶ Output: 24 V_{DC}; max. 450 W
- ▶ Protection: OVP (overvoltage protection), SCP (short circuit protection), OCP (overcurrent protection), OTP (overtemperature protection)

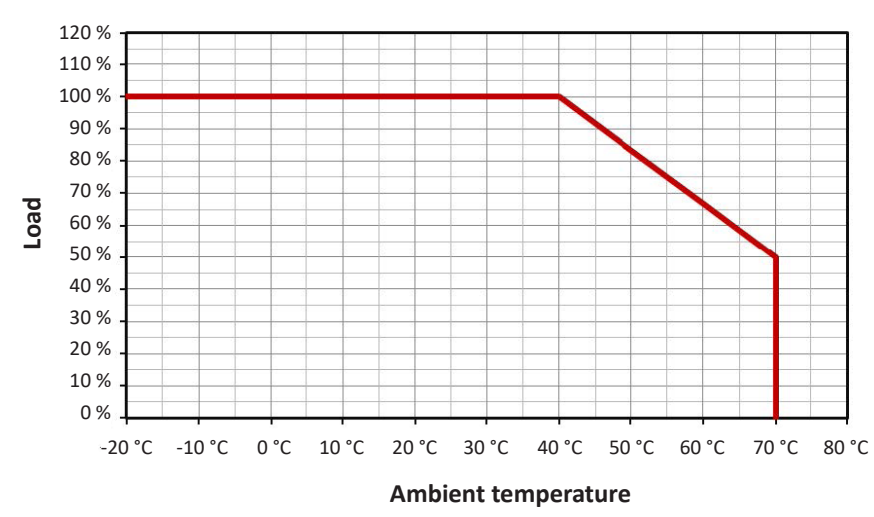


Specifications

DEWE-POW-24-450		
Input		
Rated input voltage	100 .. 240 V _{AC} (max. 90 to 264 V _{AC})	
Input frequency	50 .. 60 Hz	
Input current	Max. 5.3 A	
Output		
Output voltage	24 V _{DC}	
Output current	18.75 A (max. load)	
Output power	max. 450 W	
Output connector	2-pin female LEMO FGJ.3B.302	
Protection		
Overvoltage protection (OVP)	V _{out} * 150 % max., latch off (50 % load)	
Overcurrent protection (OCP)	I _{out} * 150 % max., auto recovery	
Short circuit protection (SCP)	Auto recovery	
Overtemperature protection (OTP)	Shut down	
Safety requirements		
Dielectric strength	Cut off current 10 mA	
	Primary to secondary: 3000 V _{AC} (RMS) for 1 minute	
	Primary to frame ground: 1770 V _{AC} (RMS) for 1 minute	
Insulation resistance	Primary to secondary: 10 MΩ for 500 V _{DC}	
	Primary to frame ground: 10 MΩ for 500 V _{DC}	
Leakage current	Less than 0.1 mA	
Grounding test	<0.1 Ω	
General specifications		
Temperature	Operating	-20 to +40 °C
	Storage	-20 to +80 °C
Humidity	Operating	20 to 80 % rel. hum. (non-condensing)
	Storage	10 to 90 % rel. hum. (non-condensing)
Cooling	By natural air	
MTBF ¹⁾	300,000 h	

Tab. 1: System specifications DEWE-POW-24-450

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Derating curve	 <table border="1"> <caption>Derating Curve Data</caption> <thead> <tr> <th>Ambient temperature (°C)</th> <th>Load (%)</th> </tr> </thead> <tbody> <tr><td>-20</td><td>100</td></tr> <tr><td>0</td><td>100</td></tr> <tr><td>20</td><td>100</td></tr> <tr><td>40</td><td>100</td></tr> <tr><td>50</td><td>80</td></tr> <tr><td>60</td><td>60</td></tr> <tr><td>70</td><td>50</td></tr> <tr><td>70</td><td>0</td></tr> <tr><td>80</td><td>0</td></tr> </tbody> </table>	Ambient temperature (°C)	Load (%)	-20	100	0	100	20	100	40	100	50	80	60	60	70	50	70	0	80	0
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Weight	1.6 kg (3.5 lbs)																				
Dimensions (W x D x H):	254 x 116 x 47 mm (10 x 4.6 x 1.9 in)																				
Material flammability	UL 94V-0																				

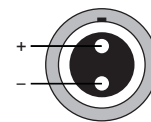
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¹⁾ Meantime between failure

Connections



Power supply pin assignment:



Connector type
2-pin female
LEMO FGJ.3B.302

Fig. 1: Connections DEWE-POW-24-450