P R B X

Input 1500VDC Nominal input voltage Un Minimum voltage Uimin 700VDC Maximum voltage Uimax 2000VDC (5 min) Battery voltage 110VDC (+25%-30%). Battery voltage The device continuously monitor the external monitorin battery voltage and start/stop converter at pre-defined levels. Battery input voltage 110VDC. Output Output voltage 110VDC ±15%. Output power 280W for 120 sec. 800W/100ms. Output peak power Overvoltage, overload and short circuit protection. Protection Thermal protection Shuts down when safe internal temperature is exceeded. Auto-recovery. Power fail & Power OK Isolated digital signal. LED indicators Mode, HV conv OK, HV converter active Low output voltage. General Efficiency >78%. Power losses 16W in idle mode and 12A battery current. According to EN 50155 and EN 50124-1. Insulation Insulation test voltages: Input to output: 11kV DC, 2 sec. Input to ground: 11kV DC, 2 sec. Output to ground: 2.55kV DC. Mechanical All printed circuit boards have protective coating (EN50155). Wall mounting design. characteristics HV system connector + PE: Cable lug terminals. LV system connector: Male connector type H15 acc to DIN 41612. 50 000 h according to MIL HDBK 217F, MTBF

temperature 40°C.

least 25 years.

See drawing.

4.2 kg.

The converter is designed for a lifetime of at

POWERBOX Railway Line ENR280D1500110 Series 1500VDC-110VDC Single Output DC/DC Converter



Operating temperature	-40 C to +70°C.		
Storage temperature	-40 C to +85°C.		
Tolerance	±10% in the temperature range -40°C to -25°C.		
Cooling	Convection.		
Humidity	Test according to EN50155.		
	Infrequent and slight moisture and condensation		
	does not cause any malfunction or failure.		
	Yearly average RH 75%.		
	30 days /year RH 95%.		
Shock and vibrations	IEC 61373. Category 1, Class B.		

Standards		
Enviroment	EN50155.	
EMC	EN50121-2-3	

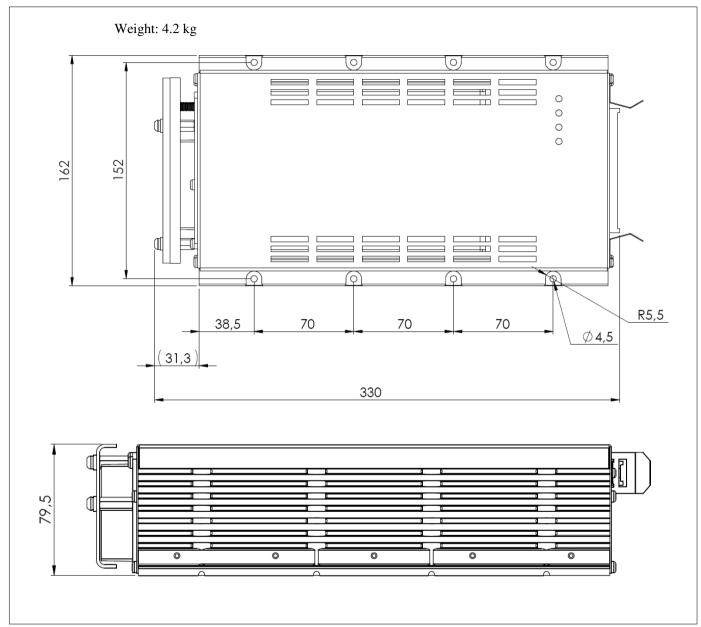
Life time

Weight

Dimensions

POWERBOX Railway Line ENR280D1500110 Series 1500VDC-110VDC Single Output DC/DC Converter

Mechanical



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