

# DPR 850 EnergE

## Single Phase Rectifier

### Description

DPR 850B Series is a single phase rectifier with out-standing efficiency and power density. This rectifier is optimal for 1U shelf solutions, and the short depth and extended operating temperature range make it most suitable for space-critical wired and wireless broadband applications.

Easy installation is secured as all Delta rectifiers are hot-pluggable and have connectors at rear. The fan cooling with speed control ensures silent operations.

### Main features

- Energy saving – leading edge efficiency
- Advanced energy saving functionality
- Space savings – leading edge power density
- Space saving – 1U height and very short depth
- Silent operation – very low audible noise
- High reliability – protection against loss of Neutral and AC over voltage

### Applications

- LTE/4G/5G
- Fixed line
- Datacom



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### Technical specifications

#### Model DPR 850B-48 ID:A1

##### 1. Input

Mains voltage	80 - 300 V <sub>RMS</sub>
Mains frequency	50 / 60 Hz
Power factor	>0.99
Harmonic distortion (THD)	5 %
EMI (conducted)	EN 55022, class B
Protection	Internal fuse 2 x8A
AC over voltage protection	Incl. loss of neutral

##### 2. Output

Nominal system voltage	53.5 V <sub>DC</sub>
Operating voltage range	42.0 – 58.0 V <sub>DC</sub>
Power limitation	850W
Current limitation	17.7 A
Over voltage protection	59.0 V
EMI (conducted)	EN 55022, class A
Load sharing	Yes
Protection	Internal fuse

##### 3. General

Peak efficiency	95.2%
Power density	30 W/in <sup>3</sup>
Communication Interface	CAN bus
User interface	Status indication
Cooling	Fan cooled
Control & Monitoring	ORION Controller
Acoustics	44 dB (A)
Dimensions (W x H x D)	51.8 x 40.0 x 247.2 mm (2.04 x 1.57 x 9.73 in)
Weight	0.6 kg (1.32 lb)
Operating temperature	-40 to +75 °C (-40 to +167 °F)
Relative humidity	95%, non-condensing (Max.)

##### 4. Standards

Safety	IEC/EN/UL 62368-1 CAN/CSA C22.2 No. 62368-1
EMI (radiated)	EN 55022, class B
Environment	RoHS compliant
Protection class	IP20 (EN 60529)

##### 5. Ordering Information

Part number	TPS1010004C (Global) TPS1010022A (US)
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