

DPR 3000 EnergE

Single Phase Rectifier



Descriptions

Delta's DPR 3000E-48 series rectifiers now offer the world's highest energy conversion efficiency of up to 98%, and the highest power density 56.8W/in³, a remarkable breakthrough that will enable not only further OPEX savings but also lower carbon emissions for our telecom carrier customers. In addition, the excellent power density is good for space saving.

Main features

- Energy saving – leading edge efficiency 98%
- Advanced energy saving functionality
- Outstanding power density 56.8W/in³
- Low carbon emissions
- Space saving – leading edge power density
- up to 15kW in 19" x 1U shelf
- Space saving – leading edge power density
- up to 18kW in 23" x 1U shelf
- Wide AC input voltage range
- Protection against loss of Neutral and AC over voltage

Applications

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



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Technical specifications

Model **DPR 3000E-48 ID:D1**

1. Input	
Mains voltage	80 - 300 V _{RMS}
Mains frequency	50 / 60 Hz
Power factor	>0.99
Harmonic distortion (THD)	5 %
EMI (conducted)	EN 55022, class B
Protection	Internal fuse 2 x20A
AC over voltage protection	Incl. loss of neutral

2. Output	
Nominal system voltage	54.0 V _{DC}
Operating voltage range	42.0 – 58.0 V _{DC}
Power limitation	3000W
Current limitation	63.5 A
Over voltage protection	59.0 V
EMI (conducted)	EN 55022, class A
Load sharing	Yes
Protection	Internal fuse

3. General	
Peak efficiency	98%
Power density	56.8 W/in ³
Communication Interface	CAN bus
User interface	Status indication
Cooling	Fan cooled
Acoustics	55 dB (A)
Dimensions (W x H x D)	84 x 41 x 270mm (3.3 x 1.6 x 10.6 in)
Weight	1.4 kg (3.0 lb)
Operating temperature	-40 to +75 °C (-40 to +167 °F)
Relative humidity	95%, non-condensing (Max.)

4. Standards	
Safety	EN / IEC 60950 UL 60950 CAN / CSA - C22.2
EMI (radiated)	EN 55022, class B
Environment	RoHS compliant
Protection class	IP20 (EN 60529)

5. Ordering Information	
Part number	TPS1010027A

*All specifications are subject to change without prior notice.

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<http://www.deltapowersolutions.com/en/tps/index.php>

