

DPR 6000B EnergE

Three phase rectifier

Description

Delta's technology leading telecom rectifier DPR 6000B EnergE provides the industrial leading efficiency of 96.5%. The three phase, hot pluggable fan cooled rectifier provides the 26.5W/in³ outstanding power density. Integrated with the high efficiency rectifier DPR 6000B EnergE, Delta power solution provides an energy saving solution for network base stations, wireless applications, fixed line applications and data communications.

Main features

- True 3-phase rectifier
- High power density
- High efficiency 96.5%
- Two versions available for all AC networks
- 380V / 400V / 480V
- 208V / 220V

Applications

- Wireless applications
- Fixed line applications, data communications
- Network base stations



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Three phase rectifier

Model	DPR 6000B - 48 ID:A1	DPR 6000B - 48 ID:B1
Input	Standard voltage	Low voltage
Line to line voltage (nominal)	380V _{AC} /400V _{AC} /480V _{AC}	208V _{AC} /220V _{AC}
Line to line voltage (range)	250 - 530V _{AC} ; De-rating ≤ 320V _{AC}	165 - 290V _{AC} ; De-rating ≤ 180V _{AC}
Frequency	50 - 60Hz	
Power factor	> 0.99	
Total harmonic distortion	< 5%	
Lightening protection	EN 61000-4-5	

Output		Standards
Voltage (default)	-53.5V _{DC}	Safety IEC/EN/UL 62368-1
Voltage (adjustable range)	-42 to -58V _{DC}	CAN/CSA C22.2 No. 62368-1
Maximum output current	125A	EMC EN 300 386; EN 55022; CISPR 22
Maximum power @ nominal Input	6000W	Environment RoHS
Power density	26.5W/in ³	MTBF 1000k hours @ 25 °C (+77 °F)
Peak efficiency	96.5% (ID:A1) 96.2% (ID:B1)	* All specifications are subject to change without prior notice.
Load regulation	≤ ± 250mV	
Ripple	≤ 100mV	
Current sharing	≤ ± 5%	
Lightening protection	EN 61000-4-5	

User interface			
Alarm and signaling	CANbus to system controller		
Indications	OK COM LD STA	Green/Red Green Yellow Red	Normal Operation/Rectifier Shut Down Communication Status Load Status OVP; OTP; Fan Failure
Control & Monitoring	Delta ORION / Eltek SmartPack with auto detection		

Mechanical	
Dimensions (W x H x D)	129.0 x 83.0 x 380.6mm (5.07 x 3.26 x 14.98in)
Weight	5.2kg (11.46lb)

Environmental	
Operating temperature	-40 to +70 °C (-40 to +158 °F); De-rating above 55°C
Storage temperature	-25 to +55 °C (-13 to +131 °F)
Altitude	0 to +4000m
Related humidity	0 – 95 % RH non-condensing
Acoustic noise	≤ 55dBA

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Ordering information

DPR 6000B - 48 ID:A1	TPS1010006B (Delta)
DPR 6000B - 48 ID:B1	TPS1010017A (Delta)
DPR 6000B - 48 ID:A1	241246.950 (Eltek)
DPR 6000B - 48 ID:B1	241246.960 (Eltek)

