

DPR 4500B EnergE

Single Phase Rectifier



Delta's technology leading telecom rectifier DPR 4500B EnergE provides the industrial leading efficiency of 97.0%. The single phase, hot pluggable fan cooled rectifier provides the 30.7W/in³ outstanding power density. Integrated with the high efficiency rectifier DPR 4500B EnergE, Delta power solution provides an energy saving solution for network base stations, wireless applications, fixed line applications and data communications.



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EECAEA-01-ZL

INPUT

Voltage (nominal)	230 V _{AC}
Voltage (range)	90 – 300 V _{AC} ; De-rating ≤ 192 V _{AC}
Frequency	50 / 60 Hz
Power Factor	> 0.99
Total Harmonic Distortion	5%
Lightening Protection	EN 61000-4-5

OUTPUT

Voltage (default)	-53.5 V _{DC}
Voltage (adjustable range)	-42 to -58 V _{DC}
Maximum Output Current	90 A
Maximum Power @ nominal Input	4500 W
Power @ low line Input - 90V	1590 W
Power Density	30.7 W/in ³
Peak Efficiency	97%
Load Regulation	≤ ± 250 mV
Ripple	≤ 200 mV
Current Sharing	≤ ± 5%
Lightening Protection	EN 61000-4-5
Protection	Internal fuse

USER INTERFACE

Alarm and Signaling	CANbus to System Controller		
Indications	OK	Green / Red	Normal Operation / Fault
	COM	Yellow	Communication Status
	LD	Yellow (ON/Blink)	Output current < 5% / CL
	STA	Red	Latched Operation

MECHANICAL

Dimensions (W x H x D)	82.0 x 86.9 x 377.9 mm (3.23 x 3.43 x 14.88 in)
Weight	3.5 kg (7.7 lb)

ENVIRONMENTAL

Operating Temperature	-45 to +75°C (-49 to +167°F); De-rating above 55°C (+131°F)
Storage Temperature	-40 to +55°C (-40 to +131°F)
Altitude	0 to +4000 m
Related Humidity	0 – 95% RH non-condensing
Acoustic Noise	55 dBA
Cooling	Fan cooled

STANDARDS

Safety	EN / IEC 60950 UL 60950 CAN / CSA - C22.2
EMC	EN 300 386
Environment	RoHS compliant CE Certified
MTBF	300k hours @ 25°C (+77°F)

* All specifications are subject to change without prior notice.

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