

SMPS – 48V

Delta DRC1000B is a single-phase rectifier with outstanding efficiency and power density. The compact module designed with inbuilt controller with programmable battery charging parameters using RS-485 and CAN, supplying load, operation monitoring and can deliver power up to 1KW.

GUI used to programme battery parameters & manage alarms, and parameters at I/P, load & battery terminal. It's back plane has inbuilt Input AC supply, output Load and battery distribution terminals. Various protection like I/P over voltage, under voltage protection, O/P under voltage, Output short-circuit & more makes solution safe and reliable.

Simplified installation as all delta rectifiers have their connectors at rear and are hot pluggable. Fan cooling with speed control ensures near silent operation. User-friendly LED's for status indications and fault recognition.



Main features :-

- Wide Input Op range: 90 to 300Vac
- Energy saving – Leading power efficiency, $\geq 95\%$
- Wide operating temperature range.
- Max capacity 1KW.
- Adjustable Battery parameters through RS-485 and CAN
- Advance battery management- Settable charging rate, voltage and current.
- Periodic Battery checking.
- Modular architecture
- User-friendly LED's for customer interface.
- PFC alarms.

Applications :-

- GPON / OLT/ ONT/ WI-FI.
- Telecom
- Smart City



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Specification



INPUT

Voltage range	90 VAC ~ 176 VAC (power derating) 176 VAC ~ 300VAC (Full power)
Voltage nominal	230 VAC
Frequency	50 Hz
Current	Max. 6 A

OUTPUT

Voltage range	42 ~ 58 VDC (Adjustable)
Voltage nominal	54 VDC
Capacity	Max. 1KW
O/P Current	18.5 A (Max. 20.8 A)
Battery charge modes	Float, Boost & Equalize
Battery current default	0.3 C (C = Input capacity in GUI)
Battery current range	0 ~20.8 A (settable as per battery capacity)
No. of Outputs	Battery x 1 nos Load x 1 nos

GENERAL

Efficiency	≥95% @ 50 % load ≥94% @ 100% load
Power density	12 W/in ³
Controller	Internal controller
Comunication	CAN , RS485
User Interface	GUI , 3 LED indications
PFC	4 PFC terminals
Protections	Over voltage, Battery Under Voltage, Battery Over current, Short circuit, Thermal protection, Battery terminal (Short circuit protection fuse need to change)
Operating Temp.	-10° C to +55° C (above 55 °C power derating till 70 °C)
Cooling	Fan cooling
Humidity	5% ~ 95%, Non condensing
Acaustics	< 55 dB
Applicable Standards	
• Safety	IEC 60950, UL60950, CSA-C22.2
• EMC	EN300386
• Environment	RoHS
Dimensions (WxDxH)	125x273x40 all in mm

Note :- Subject to change without notice.