

# AC-DC Power System

Rectifier ETP48100/ FD810



## OVERVIEW

ETP48100 is a carrier-class AC/DC power converter, convert 220V/110V AC power to -48VDC power, MAX output 50A. ETP48100 have 4 output, each MAX output 25A; If equipped with two R850G2, total output can be 100A.

ETP48100 subrack composed by 1 (one) PMU(11A) Control Board and 1 (one) PSU(R4850G2) rectifier module. The chassis comes with pre-connected Europe power cable, max output 50A.

## SPECIFICATIONS:

- \* Input voltage: 220 V AC single-phase voltage range: 176 V AC to 290 V AC
- \* Input voltage frequency: 45 Hz to 65 Hz
- \* Output voltage range: -42 V DC to -58 V DC
- \* Output current 30A for the 220 VAC single-phase input power
- \* Maximum output power: 3000 W (176–290 V AC); 1250 W (85–175 V AC decreased linearly)
- \* DC Load Output: 4 Power Output for DC Loads, with each output supporting 25A MAX.
- \* If equipped with 1 (one) R4850G2 Rectifier Module, the total MAX output is 50A
- \* If equipped with 2 (two) R4850G2 Rectifier Modules the total MAX output is 100A
- \* Battery port: NO
- \* Power supply typically used for OLT FULL Domus 5683T, 5680T, 5800-X7, X15, X17
- \* Surge protection capability 4 kV in common mode; 2 kV in differential mode

## Specifications

System	Dimension	442mm(W)×255mm(D)×86.1mm(2U,H)
	Weight	≤10kg(fully loaded)
	Cooling mode	Natural cooling
	Installation mode	Installed on 19 inch rack or cabinet
	Cabling mode	Front inlet and front outlet
	Maintenance mode	Front access
	Protection level	IP20
AC Distribution	Input mode	220VAC Single phase dual-live wire
	Input frequency	45~66Hz, rated value: 50Hz/60Hz
	Surge Protection Capability	2kV in differential mode - 4kV in common mode
DC Distribution	Output voltage	42~58VDC, rated value: 53.5VDC
	Maximum capacity	3000 W (176-290 VAC); 1275 W (85-175 VAC decreased linearly)
	Battery breakers	Does not include battery port
	Load breakers	Does not include load breakers
Environment	Operating temperature	-40°C~+65°C
	Storage temperature	-40°C~+70°C
	Operating humidity	5%~95%(non condensing)
	Altitude	0~4000m(If the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m.)
Rectifier	Rated input current	<17A
	Input voltage	85VAC~300 VAC
	Working temperature	-40°C~+75°C (derated output above 65°C)
	Dimension	40.8(H)×105(W)×281(D)mm
	Weight	≤2kg
	Cooling mode	Forced cooling
	Power factor	≥0.99
	THD	≤5%