

Flatpack 2 2U Integrated

supply, fitting within a minimal space

Higher density and more compact power solutions

The Flatpack2 2U Integrated has been specifically designed to meet the demand for higher density and more compact power solutions. It is suitable for applications needing an expandable, easily serviceable and reliable power



FLATPACK2, 2U INTEGRATED

Doc 200010.DS3 - rev5

PRODUCT DESCRIPTION

The Flatpack2 2U Integrated is a compact power systemcontaining a Monitoring and Control Unit (Smartpack), LVD, battery and load MCBs. It can house up to 4 Flatpack2 rectifier modules. Switch mode technology with resonant topology and high switching frequency is used to minimize volume and weight and to obtain high reliability. The system

accepts large variations on the input voltage (85-300 VAC) and draws sinusoidal current with a soft start power-up.

APPLICATIONS

Wireless, fiber and fixed line communication

Today's communications demand state of the art, cost efficient and compact DC power systems. Flatpack2 delivers the industry leading power density of 21W/in3 and superb reliability at lowest lifetime cost

Broadband and network access

Increasing network speed demands flexible and expandable DC power solutions. Flatpack2 is your key building block for future needs.

KEY FEATURES

HIGHEST EFFICIENCY IN MINIMUM SPACE

Resonant topology makes the module efficiency industry leading and contributes to the rectifier's ultra compact dimensions

DIGITAL CONTROLLERS Primary and secondary controls are digitalized, enabling excellent monitoring and regulation

HEAT MANAGEMENT Front-to-back air flow with chassisintegrated heat sinks gives the module the most suitable working environment.

UNIQUE CONNECTION A true plug-and-play connection system: time-to-install and cost-reducing solution.

GLOBAL APPROVALS CE marked, UL recognized and NEBS certified for world wide installation.



FLATPACK2 2U INTEGRATED



INPUT DATA		
Maximum voltage	1 phase 230 VAC (Single, dual or individual f	Feed)
Maximum current	See Flatpack2 48VDC datasheet	
Frequency	45 to 66Hz	
Protection	Soft startSurge protection(varistors)	 Internal fuses (L & N) Disconnect above 300 VAC
OUTPUT DATA		
Maximum voltage	48 VDC	
Maximum current	150A	
MONITORING		
Monitoring unit	See Smartpack datasheet	
Local operation	Menu driven software via keypads and LCD or PC (Powersuit) PowerSuite via modem or Monitoring via WebPower (WEB Interface and SNMP protocol	
Remote operation Alarm relay		Power (WEB Interface and SNMP protoco
Visual indicators	6 relays o Green LED – System ON	 Red LED – Major alarm(s)
	 Yellow LED – Minor alarm(s) 	 LCD – system status
Digital inputs	6 (for monitoring of external equipment)	-
Current measurements		ectifier current
Alarms	 Load fuse alarm Battery fuse alarm LVD operated Low output voltage alarms (2 individual alarm levels) 	 High output voltage alarms (2 individual alarm levels) Battery capacity Temperature alarm Symmetry alarm
Alarm connections	Rear access terminals (2,5 mm²)	
LOAD DISTRIBUTION OPTIONS		
32A Distribution	6 * loadbreakers (2-32A MCB) Negative distribution, 4mm ² terminals	
60A Distribution	6 * loadbreakers (2-60A MCB) Negative distribution, 10mm ² terminals	
Optional LVLD (programmable)	1 * 150A	
BATTERY DISTRIBUTION		
Battery connections	Battery cable, M6 bolts	
No. of Battery fuses	1 or 2 (max. 100A each)	
Optional LVBD (programmable)	1 * 150A	
OTHER SPECIFICATIONS		
solation	 3.0 KVAC - input and output 1.5 KVAC - input earth 0.5 KVDC - output earth 	
Operating temp.	-40 to +65°C (-40 to +145°F)	
Storage temp.	-40 to +85°C (-40 to +185°F)	
Dimensions		5 x 3.5") recommended cabinet depth is mir
Neight	400 mm (15.7") Approx. 5kg(11lbs) excl. rectifiers	
APPLICABLE STANDARDS		
Electrical	o IEC/UL 60950-1	
safety	• CSA 22.2	
	 ETSI EN 300 386 V.1.3.2 (telecor EN 61000-6-3 (emission, light ind 	
EMC	 EN 61000-6-2 (immunity, industri 	ry)
Environment	 ETSI EN 300 019-2 Class 1.2, 2.3 ETSI EN 300 132-2 	3, 3.2
ORDERING INFORMATION	• ETSLEN 300 132-2	
Part number	Desci	ription
Part number 241115.100		(also the High Effieciency" and "Back-to-
Part number	Desci Flatpack2 Rectifier Module, 48V 2kW Flatpack2, 2U Integrated 8kW	

Maximum number of rectifiers 4 Doc 200010.DS3 – rev5

Specifications are subject to change without notice e