

# Minipack system| 4 or 6 pos

Modular Power Supply Unit – 2U up to 3.2 or 4.8kW



POWERFUL TECHNOLOGY

## Product Description

The Minipack system has been specifically designed to meet any requirement in terms of power functionality and cost. Realization of Minipack systems is possible by fitting up to 4 or 6 rectifiers across 2U 19" shelf including controller and distribution.

The Minipack system is a compact power system containing a Monitoring and Control Unit (Smartpack), LVD, battery and load MCBs. 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. Minipack delivers power density of 14W/in<sup>3</sup> and superb reliability at lowest lifetime cost.

### Broadband and network access

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

## Key Features

### ü Highest efficiency in minimum space

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

### ü Digital controller

Controller is digitalized, enabling excellent monitoring and regulation characteristics. Thus, the number of component has been reduced by 40% - for highly reliable, long life, trouble free DC power systems.

### ü Heat management

Front-to-back air flow with chassis-integrated heat sinks gives the module the most suitable working environment and no limitations in the scalability of the desired system solution.

### ü Unique connection

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

### ü Global approvals

Minipack is CE marked, UL recognized for world wide installation.



Minipack 4 position 3.2kW System



Minipack 6 position 4.8kW System

# Minipack system| 4 or 6 position

## Additional Technical Specifications

Maximum number of rectifiers – 4 or 6

AC Input	
Voltage	1 phase 230VAC (2 AC mains feeds)
Frequency	45 to 66Hz
Maximum Current	See Minipack 48VDC datasheet
Protection	Surge protection Internal fuses (L & N) Disconnect above 300VAC

DC Distribution Options	
No. of Load breakers	4 pos: Up to 10 mini MCB type (2-30A) 6 pos: Up to 8 mini MCB type (2-30A)
No. of Battery fuses	4 pos: Up to 4 MCB type (60A) 6 pos: Up to 2 MCB type (100A)
Programmable LVD	LVBD: 125A Optional LVLD: 80A 4 pos: Connection options in blocks of 2 breakers (2-8, 4-6, 6-4 or 8-2) 6 pos: Connection options in blocks of 2 breakers (2-6, 4-4 or 6-2)

Monitoring	
Monitoring unit	See Smartpack datasheet
Local operation	Menu driven software via keypads and LCD or PC (PowerSuite)
Remote operation	PowerSuite via modem or Monitoring via WebPower (WEB Interface, SNMP protocol and email)
Alarm outputs	6 relays
Visual indications	Green LED – System ON Yellow LED – Minor alarm(s) Red LED – Major alarm(s) LCD – system status
Digital inputs	6 (for monitoring of external equipment)
Current measurements	Battery current Rectifier 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

Connections	
System is extractable from frame for easy access	
Battery connections	Screw terminals (up to 35mm <sup>2</sup> lug)
Load MCB connections	Terminal blocks (up to 4 mm <sup>2</sup> )
Alarm connections	Terminal blocks (up to 1.5 mm <sup>2</sup> )

Other Specifications	
Isolation	3.0 KVAC – input and output 1.5 KVAC – input earth 0.5 KVDC – output earth
Operating temp.	-40 to +75°C (-40 to +167°F)
Storage temp.	-40 to +80°C (-40 to +176°F)
Dimensions	19" mounting (446mm + brackets) 2U height and 250mm depth Recommended cabinet depth is min 300mm
Weight (excl. rectifiers)	4 pos: Approx. 4.38kg (9.66lbs) 6 pos: Approx. 4.28kg (9.44lbs)

DC Output	
Voltage	48VDC
Power	4 pos: 3.2kW (66.7A at 48VDC) 6 pos: 4.8kW (100A at 48VDC)

Applicable Standards	
Electrical safety	IEC 60950-1 UL 60950-1
EMC	ETSI EN 300 386 V.1.3.2 (telecommunication network) EN 61000-6-1 (immunity, light industry) EN 61000-6-2 (immunity, industry) EN 61000-6-3 (emission, light industry) EN 61000-6-4 (emission, industry)
Environment	ETSI EN 300 019-2 ETSI EN 300 132-2

Specifications are subject to change without notice.

### ORDERING INFORMATION

Part no.	Description
241117.110	Minipack 48/800 FC
900920-xxxxx	Minipack – Sales configured system (CTO)
CTOM0602.000	Minipack standard configuration 6 position, 2 rectifiers

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