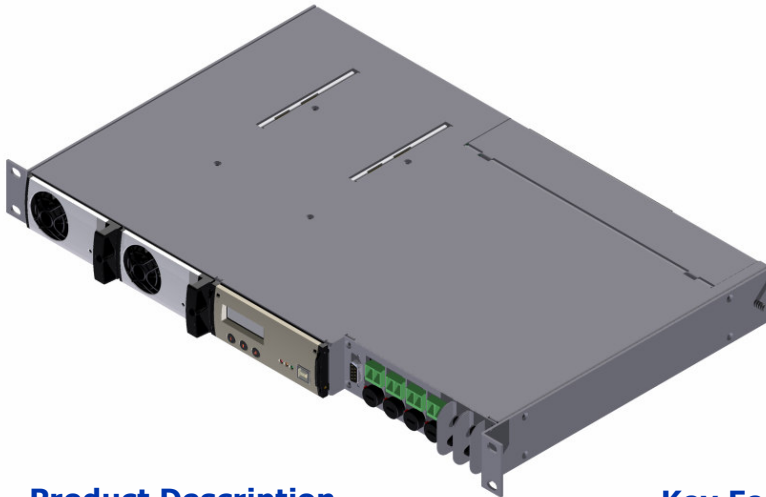


Minipack system 1.6kW 1U

Modular Power Supply Unit 1U 1.6kW



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 2 rectifiers across 1U 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 fuses. 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/in³ 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

✓ Highest efficiency in minimum space

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

✓ 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.

✓ 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.

✓ Unique connection

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

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Additional Technical Specifications

AC Input	
Voltage	85-300 VAC (Nom. 185 – 276 VAC) Linear derating below 185VAC
Frequency	44 to 66Hz
Maximum Current	Input: 4.9 Arms maximum for each rectifier at nominal input and full load Earth leakage: 1.7mA at 250Vac/50Hz
Power Factor	0.99 at 50% load or more
Input Protection	Surge protection Internal fuses (L & N) Disconnect above 300VAC

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	3 relays
Visual indications	Green LED – System ON Yellow LED – Minor alarm(s) Red LED – Major alarm(s) LCD – system status
Current measurements	Battery current Rectifier current
Alarms	Mains Failure Rectifier Failure Battery fuse alarm Low output voltage alarms

DC Output	
Voltage	48VDC (range 43.5 – 57.6 VDC)
Power	1.6kW (33,4A for 48VDC)

DC Distribution Options	
No. of Load breakers	4x(2-16A)
No. of Battery fuses	2x30A
Programmable LVD	LVBD: 80A

Connections	
Battery connections	Screw terminals (up to 16mm ²)
Load MCB connections	Terminal blocks (up to 4 mm ²)
Alarm connections	Socket D-SUB9

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) 1U height and 300mm depth
Weight (excl. rectifiers)	About 4.00kg

Specifications are subject to change without notice.

ORDERING INFORMATION

Part no.	Description
241117.110	Minipack 48/800 FC
M0201.001	Minipack system 1.6kW 1U