Minipack 1.6kW System with bulk feed DC output

Minipack 1.6kW System with DC distribution with load fuses and Controller

Minipack 1.6kW System with DC distribution with load breakers and Controller

Minipack System

Power Supply Systems 48V, 1.6kW

Compact and cost effective power supply system

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 2 rectifiers across 1U 19″ shelf including controller and DC distribution.

Applications

Wireless, fiber and fixed line communication

Today's communications demand state of the art, cost efficient and compact DC power systems. The 1U Minipack system delivers a cost- efficient power solution that can be easily adapted for applications where there is limited cabinet space.

Broadband and network access

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

Product Description

The Minipack 1U is a compact power system, which can take up to two Minipack modules, Compack controller, load distribution and battery distribution. The system is available in 2 variants:

1. As a bulk feed solution with just terminal blocks for bulk feed to remote distribution

2. As a fully integrated power solution that can accommodate the rectifiers, controller, load and battery distribution

Both variants are only 1U in height, and incorporate a unique slide out mechanism. This allows for easy-access to the AC, DC and signal connection point, even with other equipment mounted directly above or below. The shallow depth of only 250 mm makes this an ideal solution for ETSI cabinets or other depth-restricted application

Key Features

Compact design

The small system dimensions are ideal for ETSI or small cabinet solutions.

Bulk-feed or integrated distribution

Select either a bulk-feed or integrated distribution to meet your power solution requirements.

Digital controllers

The controller is digitalized, enabling excellent monitoring and regulation characteristics.

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.

Global approvals

Minipack is CE marked, UL recognized for worldwide installation.

Minipack PS Systems — 48V, 1.6kW
Additional Technical Specifications

AC Input

Voltage	1 or 2 x single phase feeds (85VAC – 300VAC) Field configurable
AC Connector	Screw terminals, 2.5 mm2 [12 AWG]
Maximum Current	See Minipack datasheet
Input Protection	o Internal fuses in rectifier module

Monitoring

Monitoring Unit	Compack
Local Operation	WEB interface via standard browser using WebPower
Remote Operation	WebPower (WEB Interface, SNMP protocol and email)
Alarm Relays	3 x Potential free change over contacts (NO, NC, C)
Visual Indications	o Green LED – System ON o Yellow LED – Minor alarm(s) o Red LED – Major alarm(s)
Digital Inputs	o 3 x multipurpose inputs. Can be configured for temperature measurement, digital or analogue monitoring
Current Measurements	o Battery current o Rectifier current

Alarms	o Load fuse alarm
	o Battery fuse alarm
	o LVD operated
	o Low output voltage alarms
	       (2 individual alarm levels)
	o High output voltage alarms
	       (2 individual alarm levels)
	o Battery capacity
	o Temperature alarm
	o Symmetry alarm (Compack SW > 1.04)

For more details see Compack datasheet.

DC Output

Voltage	48VDC
Power	400-1600W (max 33A @ 48VDC)

DC Distribution Options

Load fuses	o Bulk feed output only o Up to 6pcs 5x20mm fuses (2-16A) o Up to 4 MCB plug-in type (2-20A)
Battery breakers	o Up to 2 MCB plug-in type (30A)
Programmable LVD	o LVBD: 50A

Connections

Battery breaker/ bulk feed connections	Terminal blocks (up to 10mm2)
Load fuse connections	Pluggable terminal blocks on the front, up to 4.0 mm2 [AWG 11]
Alarm connections	Pluggable terminal blocks, up to 1.5 mm2 [AWG 12]
System	Extractable from frame for easy access

Other Specifications

Isolation	o 3.0 KVAC – input and output o 1.5 KVAC – input earth o 0.5 KVDC – output earth
Operating temp.	-40 to +70° C (-40 to +152° F)
Storage temp.	-40 to +80° C (-40 to +176° F)
Dimensions	19″ mounting (446mm + brackets) 1U height and 250mm depth Recommended cabinet depth is min 300mm
Weight (excl. rectifiers)	Approx. 2.66kg [5.64lbs]

Applicable Standards

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

Ordering Information

Part no.	Description
CTOM0201.xxx	Minipack 1U – Sales configured system (CTO)
241117.130	Minipack Rectifier, 48VDC 800W
241117.120	Minipack Rectifier, 48VDC 400W
242100.400	Compack controller

Specifications are subject to change without notice

CTOM0201.DS3 – v6