



Minipack System

Power Supply Systems 48V, 3.2 or 4.8kW

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 4 or 6 rectifiers across 2U 19" shelf including controller an distribution.



Minipack 3.2kW System, 4 rectifiers



Minipack 4.8kW System, 6 rectifiers

MINIPACK PS SYSTEMS

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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.

PRODUCT DESCRIPTION

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.

KEY FEATURES

- . HIGHEST EFFICIENCY IN MINIMUM SPACE
- Resonant topology makes the module efficiency industry leading and contributes to the rectifier's ultracompact dimensions.
- DIGITAL CONTROLLERS
 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 chassisintegrated 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.

Advice Electronics Ltd





AC INPUT		
Voltage	4 pos: 2 x AC feeds (230VAC 1 ph)	6 pos: 3 x AC feeds (230VAC 1 ph)
Frequency	45 to 66Hz	
Maximum Current	See Minipack datasheet	
Input Protection	o Surge protection	o Internal fuses (L & N)
MONITORING		
Monitoring Unit	See Smartpack datasheet	
Local Operation	Menu driven software via keypads and LO	CD or PC (PowerSuite)
Remote Operation	Ž,	WebPower (WEB Interface, SNMP protocol and ema
Alarm Relays	6 relays	
Visual Indications	o Green LED – System ON o Yellow LED – Minor alarm(s)	o Red LED – Major alarm(s) LCD – system status
Digital Inputs	o 6 (for monitoring of external eq	
Current Measurements	 Battery current 	
01	o Rectifier current	I Bala a charak calka a a alama
Alarms	o Load fuse alarmo Battery fuse alarm	 High output voltage alarms (2 individual alarm levels)
	 battery ruse diamn LVD operated 	o Battery capacity
	 Low output voltage alarms 	 Temperature alarm
	(2 individual alarm levels)	o Symmetry alarm
DO OUTDUE		o and more
DC OUTPUT		
Voltage	48VDC	
Power	4 pos: 3.2kW (66.7A at 48VDC)	6 pos: 4.8kW (100A at 48VDC)
DC DISTRIBUTION OPTIONS		
No. of Load breakers	o 4 pos: Up to 10 mini MCB type (2-30A)	
No. of Dottom, finance	o 6 pos: Up to 8 mini MCB type (2	
No. of Battery fuses	4 pos: Up to 4 MCB type (60A) o LVBD: 125A	6 pos: Up to 2 MCB type (100A)
Programmable LVD	o LVBD: 125Ao Optional LVLD: 80A	
	o 4 pos: Connection options in blo	ocks of 2 breakers (2-8, 4-6, 6-4 or 8-2) ocks of 2 breakers (2-6, 4-4 or 6-2)
CONNECTIONS		
Battery connections	Screw terminals (up to 35mm2 lug)	
Load MCB connections	Terminal blocks (up to 4 mm2)	
Alarm connections	Terminal blocks (up to 1.5 mm2)	
System	Extractable from frame for easy access	
OTHER SPECIFICATIONS		
Isolation	o 3.0 KVAC – input and output	o 0.5 KVDC – output earth
	o 1.5 KVAC – input 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 300mn
Weight (excl. rectifiers)	4 pos: Approx. 4.38kg (9.66lbs)	6 pos: Approx. 4.28kg (9.44lbs)
APPLICABLE STANDARDS		
Electrical safety	IEC 60950-1	UL 60950-
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 O EN 61000-6-2 (immunity, industry) o O EN 61000-6-3 (emission, light industry)	
	o EN 61000-6-4 (emission, indus	
Environment	ETSI EN 300 019-2 ETSI EN 300 132-2	
ORDERING INFORMATION	L 1 31 L 1 1 300 1 32-2	
Part No.	Description	
CTOM0402.xxx	Minipack 4 pos – Sales configured systen	n (CTO)
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Specifications are subject to change without notice