MITRA
ENERGY & INFRASTRUCTURE
POWER NEEDS POWER DEEDS

ACE094ST.K48N

4 x 850W -48V

Product Features:

- Power module for battery backup
- 3400W redundant power N+1
- Fits in 19” 1U high
- Up to four modules 850W constant power
- Battery connection and management
- Battery test
- Plug and play
- Easy diagnostic and maintenance
- Flexible input configuration
- Worldwide certification

RoHS COMPLIANT CE 1166 CEBEC

Best in class compactness leaves space for your application
With more than 2500W redundant on a 19" 1U shelf that fits in a 300mm (11.8") deep cabinet, this system is the perfect answer to the growing number of applications where space is a constraint. This performance is the result of years of experience shared by the engineering teams with their colleagues from field service and operations to design superior power density without any compromise on reliability.

The right answer to progressive investment level
This power rack of Mitra E&I is the perfect answer to all power requirements in the 850W to 3400W range. The system encompasses locations for four hot-pluggable rectifiers. The system can be equipped with an embedded monitoring unit offering all essential functions and can be upgraded at any moment with battery management functions and a communication card for remote control through TCP/IP.

Fully featured for all applications
The units are the perfect solution to both indoor and outdoor applications and offer a wide range of features to improve control of the system. Beyond the traditional voltage programming, AC and DC fault control, the unit is equipped with a smart derating of the power in regard to internal temperature.

Custom configured supervision
The SCU (Switch Controller Unit) supports all the necessary telecom energy monitoring functions at the lowest initial investment. This unit also allows the installers to configure the system to local requirements without training or any specific tools other than a small screwdriver. This is particularly suitable as these systems are used in various telecom network nodes with different customers' requirements. The unit enables control of rectifier status, redundancy, mains presence and battery management.

Battery lifetime management
Delivered with a temperature sensor, the system features voltage compensation in regard to the battery temperature, protection against deep discharge, battery charge current limitation and regular capacity testing. The system features protection against reverse polarity connection and a user-controlled battery charge current limitation

Easy installation and maintenance
The rectifiers do not require any procedure or special tools to be installed in the rack. One led on the front plate allows rapid detection of operation and faults and makes the system maintenance very simple.

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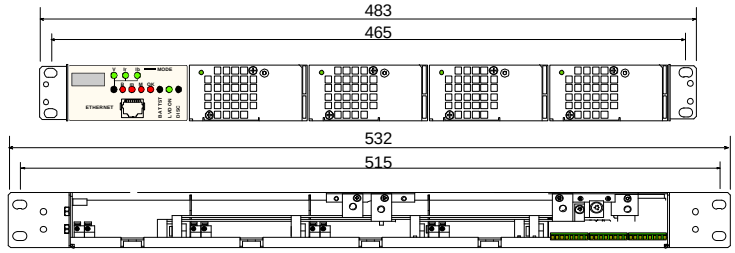
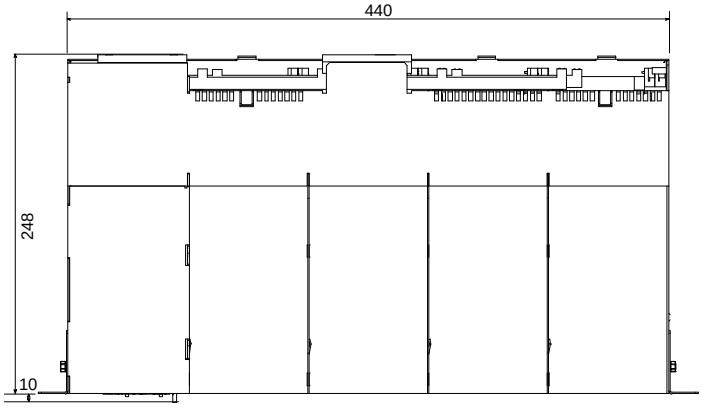
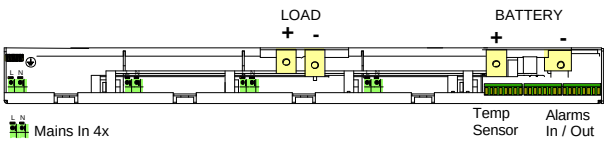
SPECIFICATIONS	ACE094ST.48N		
Input Voltage Range	90 .. 265V 4 inputs (1 per module)		
Source current	5.5A / module (@ 180VAC, 850W) 7A / module (@ 90VAC, 500W)		
Power factor	typ. 0.99		
EMI	Meets EN55022 level B		
	Load output	**Battery output**	**Comments**
Float voltage	54.0V nominal		at +25°C
Range	40.0 .. 58V		with controller
Temp. comp.	-3mV/K/Cell (range 0 .. -5mV/K/Cell)		
Output current at 54V/42V	63A/81A		Total current @ 230V
Constant output power	3400W		With four rectifiers @ 230V
Deep discharge protection		43.2 or 40.8V	
Battery charging limitation		1 .. 15A .. or full current	
Battery capacity		10 .. 100 .. 150Ah	
Battery discharge amount		30% or 50%	
End of test voltage		44V or 46V	
Test		Manual or every 180 days	
Alarm output signals	Mains, minor, major, battery failure		User configurable
Digital inputs	4 NC inputs available, user setting possible		
Load sharing	Independent from the controller, internal to the rack		
Display on Controller	**Float voltage**		
	Rectifier current	**Battery current**	
Leds on controller	OK, Battery alarm, Major & Minor alarm LVD On - Test		
Communication	TCP/IP Field pluggable option with remote monitoring software		
Dimensions	H/W/D 44.2mm x 19” x 248mm / (1.7” x 19” x 9.8”)		
Weight	6.4kg / (14lbs) (rack with four rectifiers)		

OUTLINE DIMENSIONS







#	A	B	C
1	-48V sense	External digital input 3	Alarm 3 : common
2	0V sense	External digital input 4	Alarm 3 : normally open
3	0V signal	Alarm 1 : common	Alarm 3 : normally closed
4	Temperature sensor	Alarm 1 : normally open	Alarm 4 : common
5	External digital input 1	Alarm 1 : normally closed	Alarm 4 : normally open
6	External digital input 2	Alarm 2 : common	Alarm 4 : normally closed
7	Reserved	Alarm 2 : normally open	Reserved
8	Reserved	Alarm 2 : normally closed	Reserved

Connection
AC mains connector Phoenix Contact FFKDSA/H1-7.62 (4x2 poles)
M5 Stud for earth
Signal Connector Phoenix Contact MC 1.5/8-G-3.5
DC power outputs (0V, -54V battery, 0V, -54V load): bus bars (M5 screw terminal)

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