

# DC POWER SYSTEMS

Smart Series



Dynamic Power

## Smart SYS E3151500R48 Embedded Power System



### Features

- 19"3U sub-rack, easy to be embedded into all standard telecom equipment
- Up to 9KW system capacity
- Up to 0.99 power factor
- Intelligent fan-cooling
- Rectifier modules hot-swap
- N+1 rectifier module redundancy
- Advanced batteries monitoring and management
- ECO mode
- High power density

### Applications

- Fiber optic network
- Access network
- Satellite communication ground station
- Transmission equipment
- Mobile communication
- ESS

### Introduction

- Smart SYS E3151500R48 system is a compact and intelligent power system, It can house up to 3\*3KW rectifiers and 1\*SC500 controller
- AC input, DC output and dry contact use front access and front operation
- With compact design, easy installation
- Two levels Low Voltage Disconnect (LVD) protection
- Two battery MCBs
- Compatible with rectifiers of the same size

### Applicable Standards

Electrical	IEC 60950-1 EN 60950-1 UL 60950-1
EMC	EN 55022 Class A
Environmental	ETSI EN 300 019-2 ETSI EN 300 132-2 RoHS

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## Input

AC Input	85Vac~300Vac
Input Current	≤21A (Per rectifier)
Frequency	45~65Hz
THDi	<5%@full load <10%@half load Rated input and output voltage

## Output

Output Voltage	-53.5V Rated output voltage
Output Current	-53.5V float voltage -56.4V boost voltage ≥150A
Voltage Regulation	≤ ± 1%
Current Sharing	≤ ± 5%
Efficiency	≥93.5%
Ripple and Noise	≤200mV Peak-Peak
Psophometric Noise	≤2mV

## Other Specifications

Operating Temperature	-40℃ to +70℃ (-40℉ to +158℉)
Storage Temperature	-40℃ to +85℃ (-40℉ to +185℉)
Humidity	Operating: ≤95% non-condensing Storage: ≤99% non-condensing
Dimensions(mm)	482.6W (19" ) x 132 H (3U)x 395D
Weight	≤10kg ( Without rectifier )

## Options

DC Distribution	LLVD: 2*20A/1P+2*10A/1P BLVD: 3*32A/1P 2 MCBs for battery, the rating of load MCB is 63A BLVD & LLVD1 , Front operation and front connection
AC Distribution	AC input mode: 1*32A/3P MCB Front access and front connection
Low Voltage Disconnect	125A Bi-stable contactors should be used as LLVD1 &BLVD
Output Protection	Short-circuit protection Overload protection
Rectifier	SP I 48/2000 SP II 48/2000 SP II 48/2000HE SP I 48/3000 SP II 48/3000HE

## Monitoring

Function	Operation information acquirements, battery and system management, system alarm, communicate with control center related ports
Controller	SC500
Battery Mid-Point	2 x Battery mid-point
Dry Contact	6 relay outputs, NO+COM
Digital Input	5 DI
Interface	LCD
Temp Sensor	2