

RCT48300

19 INCH MODULAR RECTIFIER SYSTEM



Product

Embedded DC Power System is widely deployed in the Telecom/Industrial environment today, a new generation "Green & Energy Saving" system, aiming at outdoor low power mobile Telecom/Industrial power market, meeting the trend of Telecom base station development, saving construction cost and shortening the time. The system is highly adaptable with the environment, features with a wide operating temperature range, meeting the demand of high-level users.

Application

- Satellite Communication Ground Station
- SCADA Networks and Data Room
- Mobile Communication
- Fiber Optic network
- Transmission equipment
- Radio base station/cell sites
- Railway & metro
- ESS
- 5G Base Station /Micro Base Station
- Direct-current emergency power units in power stations and chemical plants

Features

- Wide operating range of AC input voltage: 90~290Vac;
- current/voltage switching tech with high efficiency $\geq 93.2\%$;
- Perfect battery management, battery temperature;
- Multiple communication ports, easy for networking and remote management.
- ModbusRS485 /TCP/IP/YDN23 (YD/T 1363) protocol;
- Temperature compensation, LVLD and LVBD protection;
- Automatic battery test function, cycle test, quick test;
- Supports power system & module sleep, efficiency mixing, energy saving;
- Support real-time detection of the operating status of the power system;
- Support alarm real-time detection and reporting;
- Hot-swap able;
- Input over/under voltage protection;
- Output over voltage protection;
- Output over current protection;
- Output short circuit protection;
- Auto current sharing, parallel operation

Model	RCT48300
Input Voltage	220 VAC
Output Voltage	53.5 VDC
Output Capacity	5000 W
Input AC	
AC Con-fig.	220 Vac (L+N+PE)
Input Voltage Range	90 Vac-290 Vac
Frequency	45-65 Hz
THDi	<5% @ full load <10% @half load Rated input & Output Voltage
Mains Connection	Terminal
Output DC	
Output Voltage	42-58 VDC 53.5 Vdc
nom. Output Current (Max)	88A
Equ- charge(V)	56.4 V(42-58 Vdc adjustable);
Float voltage (V)	53.5 V(42-58 Vdc adjustable);
Voltage Regulation	≤±1%
Current Sharing	≤±5%
PF	0.99@230 VAC/50 A, ≥0.98@230 VAC/25 A;
Ripple voltage	≤200mV
Output Accuracy(V)	≤0.6%
Load Breaker	Terminal
Battery Breaker	Terminal
BLVD	Yes
Stunt	Yes
Technical Specification	
Rectifier Module	RM483000 3PCS
Efficiency	93.2%
Power Capacity (Max)	5000 W
Input Current	22.72 A
Input Projection (Recom)	18.41 A
Height	88mm(2RU)
Width	482mm(19 Inch)
Depth	410mm
Weight	17KG Appro.
Classification	IP21
Monitor Control	
Digital Input	6 DI
Local Interface	Display, Menu Structure Key Pads, LED
Remote Monitor	Rs485&TCp/IP ,6 alarm Relays
Battery Mid-Point	B-V2 /B-V1
User	4 Group
Intelligent Wake Management	Yes
Battery Temp. Sensor	Yes
Temperature compensation	Yes
Battery Self-Test	Yes
Others	
LCD display	Input/output voltage、 Frequency、 output current、 Environment、 Rate
Power status	City power 、 Output 、 Under voltage、 overload voltage
Operating Temp.	-40 to +55°C (-40 to +131°F)
Storage temp	-40 to +70°C (-40 to +158°F)
Humidity	5% to 95% RH non-condensing
MTBF	> 10,0000 hours (ambient : 25°C)
Historical Alarm Records	Up to 1000 Units
Altitude (M)	≤3000m,more than 3000m, Rise every 100m, derated 1% output Capacity