



OD RRU

1500W to 6000W/48Vdc

PRODUCT DESCRIPTION

The OD RRU 1.5kW to 6kW/48Vdc micro power system is designed to meet the demanding power needs in high density urban and residential environment. The solution is accompanied by a similar design lithium battery module with power ratings of 48Vdc/50Ah.

The solution, including the rectifier, controller and distribution, are housed in an IP65 rated enclosure with free-cooling design to ensure safe and reliable operation across all weather conditions.

Both power and battery module designs support pole-mounted and wall-mounted implementations.

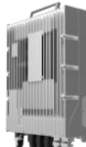
KEY FEATURES

- Convection-Cool, No Fans
- Simple Installation
- Wide Input Voltage Range
- Wide Temperature Range
- Surge Production on input
- Peak Efficiency >96%
- Remote Monitoring
- Wall or Pole mount

APPLICATIONS

- Macro cell BTS
- Microwave
- LTE / WiMax
- Antenna Power
- Wireless
- Broadband Access

TECHNICAL SPECIFICATIONS

MODEL	RRU 1.5kW/48Vdc	RRU 2.0kW/48Vdc	RRU 3.0kW/48Vdc	RRU 6.0kW/48Vdc
Capacity	1500W	2000W	3000W	6000W
Model				
AC INPUT				
Nominal Voltage	270Vdc / 220Vac			
Voltage Range	90-400Vdc (derates @ <200Vdc); 85-300Vac (derates 50% @ <175Vac)			
Input Frequency	45Hz to 66Hz			
input Power Factor	≥0.99 (Full Load)			
Input Connection	1 x AC Port, single phase 3-wire (L/N/E)			
Input Protection	SPD (In 8/20us, 20kA)			
	Undervoltage and Overvoltage Protection			
DC OUTPUT				
Output Voltage	53.5Vdc (adjustable 43Vdc to 58Vdc)			
Output Power	1500W	2000W	3000W	6000W
Max Output Current	31.25A	41.6A	62.5A	125A
Peak Efficiency	>96%			
Parallel Operation	Up to 4 units (same model)			Up to 2 units (same model)
Output Protection	SPD (In 8/20us, 10kA), Over-current, Overvoltage, Undervoltage high temperature protection; short circuit proof			
Output Connectors	DC Load: 3 x 40A port, Battery: 1 x 60A port			DC Load: 7 x 40A port, Battery: 2 x 125A port
CONTROL and MONITORING				
Controller	3 x Dry contacts; rectifier fail, mains fail, battery fail			
Interface	RS485	WIFI, 4G, RS485		
OTHER SPECIFICATIONS				
Isolation	Input to Output: 3.0kVac, Input to Earth: 2.5kVac, Output to Earth: 0.5kVdc			
Leakage Current	<3.5mA			
Cooling	Convection Cooling			
Cable Entry	Bottom			
ENVIRONMENTAL				
Operating Temperature Range	-40°C to +55°C			
Storage Temperature Range	-40°C to +70°C			
Relative Humidity	5% to 95% RH non-condensing			
Altitude	0-2000m above sea level			
IP Rating	IP65			
PHYSICAL				
Dimensions WxHxD (mm)	300 x 400 x 70	350 x 450 x 100		350 x 450 x 140
Net Weight (kg)	<8kg	<14kg		<25kg
Mounting	Wall mount / Pole mount			
DESIGN STANDARDS				
Electrical Safety	EN62368-1			
EMC	Class A, EN61000-4-5, EN55024			
Others	CE			

TECHNICAL SPECIFICATIONS

MODEL (Battery Module)		48V/50Ah
Rated Voltage		Nominal 48Vdc
Nominal Capacity		50Ah
Model		
Charge & Discharge Characteristics		
Float Charge		54.5Vdc
Charging current		10A to 25A (recommended 10-15A)
Discharge Current (Maximum)		50A
Cycle Number		1200 cycle time (Charge: 0.5C, Discharge: 3kW, DOD: 100%, 35°C)
Other Specifications		
Safety Protection		Over-voltage, under-voltage, short circuit, reverse connection, overload, over-current, high and low temperature, balancing, dormancy
Operating Temperature		-40°C to +55°C
IP Rating		IP65
SPD Rating		DC 8/20us, 10kA
Communication		RS485 / RS232
Parallel Operation		Up to 4 units (same model)
PHYSICAL		
Dimensions WxHxD (mm)		350 x 450 x 200
Net Weight (kg)		<34kg
Mounting		Wall mount / Pole mount
DESIGN STANDARDS		
Safety Standards		IEC62619, IEC62368-1, UN38.3



IP65 Micro Power System

IP65 Lithium Battery