OPTI-Solar
INVERTER POWER

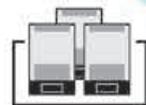**SP6000-10000 Regal Ultra**

SP Regal Ultra Series

Zero(0ms) Transfer Time

Dual Output

BMS

Wi-Fi

Parallel operation

Features

• Zero(0ms) transfer time
• Dual outputs for load management
• Detachable LCD module
• Selectable high power charging current
• Configurable AC/Solar input priority via LCD setting
• Auto restart while AC is recovering
• Overload and short circuit protection
• Cold start function
• Built-in Wi-Fi & BMS function
• Optional parallel operation up to 9pcs

Application Diagram

Specifications

MODEL	SP6000 Regal Ultra	SP10000 Regal Ultra
Rated Power	6200VA/6200W	10000VA/10000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers)	
	90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
THDI	≤ 10%	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
AC Frequency Range (Batt. Mode)	50Hz ± 0.1 Hz or 60Hz ± 0.1 Hz	
Surge Power	10000VA	
Peak Efficiency (Batt. Mode)	92%	
Transfer Time	0 ms (AC mode to battery mode)	
	4 ms (Inverter mode to bypass mode)	
Harmonic Distorion	≤ 3% THD (Linear Load); ≤ 5% THD (Non-linear Load)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR CHARGER & AC CHARGER		
Maximum PV Power	6000W	10000W
Maximum PV input current	27A	40A
Maximum PV open circuit current	40A	60A
PV Array MPPT Voltage Range	120~430Vdc	
Maximum PV Array Open Circuit Voltage	500Vdc	
Maximum Solar Charging Current	120A	200A
Maximum AC Charging Current	120A	200A
Maximum Charging Current	120A	200A
PHYSICAL		
Dimension (D × W × H)	140 × 295 × 468mm	147.5 × 432.5 × 553.5mm
Net Weight	12kgs	20kg
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C ~ 55°C	
Storage Temperature	-15°C ~ 60°C	

Specifications are subject to change without notice.