

SP1600 AVR~ SP4000 AVR

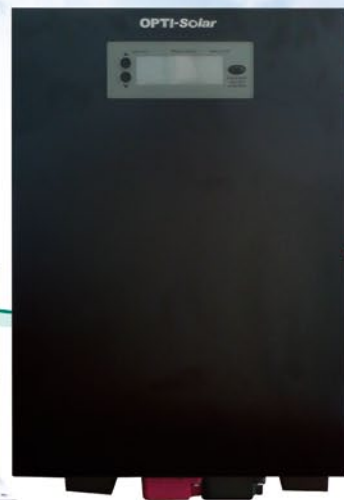
SP AVR Series

Built-in AVR function.

Wide range of grid input for unstable electricity

Features

- Adjustable voltage-transfer points & charging voltage
- Automatic restart of load after inverter shutdown
- Smart AVR function (Two buck / boost modes)
- Wide input range 140V~310V
- Generator compatible
- Cold-start capable
- Full-functional of LCD display with Audible alarms
- Intelligent double-stage charging control; Adjustable charging current by DIP switches for different battery types
- Thermal control cooling fan
- DC/AC Isolation



Specifications

MODEL	SP1600 AVR	SP2400 AVR	SP3200 AVR	SP4000 AVR
Rated Power	1600VA / 1200W	2400VA / 1800W	3200VA / 2400W	4000VA / 3200W
INPUT				
Voltage	100V/110V/115V/120V or 200V/220V/230V/240V Selectable			200V/220V/230V/240V Selectable
Voltage Range	70V ~ 155V or 140V ~ 310V			140V ~ 310V
Regulation Range	Enhanced Buck	+28% of selected nominal voltage		
	Buck mode	+10% of selected nominal voltage		
	Boost mode	-10% of selected nominal voltage		
	Enhanced Boost	-25% of selected nominal voltage		
Frequency Range	50 Hz/ 60 Hz (Auto sensing)			
Surge Protection	1X0V	1824 Joules		
	2X0V	1940 Joules		
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC ± 3%			
Crest Factor	3 : 1			
Efficiency (Normal mode)	97%			
Transfer Time	3 ms			
Over current protection	Yes			
Waveform	Pure sine wave			
BATTERY				
Battery Voltage	24 VDC	36 VDC	48 VDC	
Floating Charge Voltage	27 VDC	40.5 VDC	54 VDC	
Low Battery Alarm Voltage	21 VDC	31.5 VDC	42 VDC	
Shutdown Voltage	20 VDC	30 VDC	40 VDC	
Overcharge Protection	30 VDC	45 VDC	60 VDC	
Maximum Utility Charging Current	25 A	35 A	30 A	
SOLAR CHARGER (OPTIONAL)				
Maximum Power Rating	675W		1000W	
Maximum solar charge current	25A		20A	
Suggested operating Voltage Range	30~40 VDC		40 ~ 63 VDC	60 ~ 84 VDC
Polarity Protection	Yes			
PHYSICAL				
Dimension (D×W×H)	510×200×180mm			
Net Weight	15kgs	26kgs	34kgs	41kgs
OPERATING ENVIRONMENT				
Operating Altitude	0 ~ 3000 meters			
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	0°C - 40°C			
Storage Temperature	-15°C - 55°C			

Specifications are subject to change without notice.

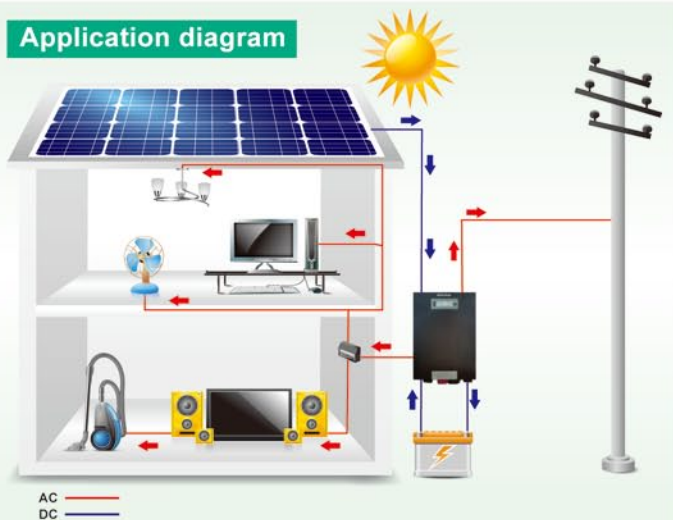
Diagram on how AVR works ...



AVR keeps electricity at a safe range by correcting the under and over voltages that are harmful to your equipment.

AVR also allows the life of the battery to be extended.

Application diagram



AC ———
DC ———

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