

SP3200 ~ 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

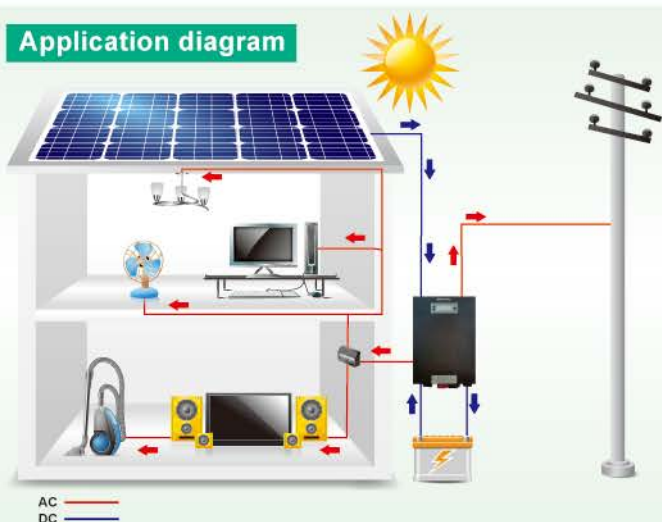
MODEL	SP3200 AVR	SP4000 AVR
<b>Rated Power</b>	3200VA / 2400W	4000VA / 3200W
<b>INPUT</b>		
<b>Voltage</b>	200V/220V/230V/240V Selectable	
<b>Voltage Range</b>	140V ~ 310V	
<b>Regulation Range</b>	<b>Enhanced Buck</b>	+28% of selected nominal voltage
	<b>Buck mode</b>	+10% of selected nominal voltage
	<b>Boost mode</b>	-10% of selected nominal voltage
	<b>Enhanced Boost</b>	-25% of selected nominal voltage
<b>Frequency Range</b>	50 Hz/60 Hz (Auto sensing)	
<b>Surge Protection</b>	660 Joules	
<b>OUTPUT</b>		
<b>AC Voltage Regulation (Batt. Mode)</b>	230VAC ± 3%	
<b>Crest Factor</b>	3 : 1	
<b>Efficiency (Normal mode)</b>	97%	
<b>Transfer Time</b>	3 ms	
<b>Over current protection</b>	Yes	
<b>Waveform</b>	Pure sine wave	
<b>BATTERY</b>		
<b>Battery Voltage</b>	36 VDC	48 VDC
<b>Floating Charge Voltage</b>	40.5 VDC	54 VDC
<b>Low Battery Alarm Voltage</b>	31.5 VDC	42 VDC
<b>Shutdown Voltage</b>	30 VDC	40 VDC
<b>Overcharge Protection</b>	32 VDC	60 VDC
<b>Maximum Utility Charging Current</b>	30 A	
<b>SOLAR CHARGER</b>		
<b>Maximum solar charge current</b>	25A	20A
<b>Suggested operating Voltage Range</b>	40 ~ 63VDC	60 ~ 84Vdc
<b>Polarity Protection</b>	Yes	
<b>PHYSICAL</b>		
<b>Dimension (D X W X H )</b>	510 x 200 x 180mm	
<b>Net Weight</b>	34kgs	41kgs
<b>OPERATING ENVIRONMENT</b>		
<b>Humidity</b>	5% to 95% Relative Humidity(Non-condensing)	
<b>Operating Temperature</b>	0°C - 40°C	
<b>Storage Temperature</b>	-15°C - 55°C	

### 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



Specifications are subject to change without notice.