

## Extra Smart Sine wave Inverter (SV series, EV version) 1000VA~4000VA

### General Features:

- ◆ Wide DC input range
- ◆ Output short circuit protection
- ◆ DC input polarity protection
- ◆ Sine Wave output
- ◆ Designed for any kind of load
- ◆ Automatic restart of load after overload shutdown
- ◆ Audible alarm
- ◆ Thermal control cooling fan
- ◆ Generator compatible(models with AC input)
- ◆ Smart Bypass function (models with AC input)
- ◆ Full function of LED display (LCD display optional)

### EVR series



### EVT series (LCD & LED)



### AC Output

	115V Models	230V Models
Power Levels (rated at nominal inputs)	1000VA/ 700W ; 1500VA/ 900W ; 1700VA/ 1200W ; 2500VA/ 1800W ; 3500VA/ 2400W ; 4000VA/ 3300W	
Output Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Voltage Waveform	Sine wave	
Crest Factor	5 : 1	
Output Frequency	50/60Hz(selectable by using the remote set-up software)	
Regulation	±3% (output voltage adjustable by using the remote set-up software)	
Transfer time (Models with AC input)	2ms typical (Bypass to inverter mode) Zero (Inverter mode to bypass mode)	
Over current protection	Over load alarm level 100% ~ 120% Over load shutdown level 120% ~ 190% (Adjustable by using the remote set-up software)	

### AC Input (optional input)

	115V Models	230V Models
Nominal Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Input Frequency	47Hz ~ 65Hz, 50/60Hz auto-sensing	
Efficiency	97% (Normal mode)	
Noise Filtering	Full time EMI/RFI filtering	
Over current protection	By re-settable over current protector	

Voltage Range	-30% ~ +33% for selected nominal voltage.	
AVR Range (2 Bucks, 2 Boosts)	Enhanced Buck: +24% of selected nominal voltage Buck mode: +8% of selected nominal voltage Boost mode: -8% of selected nominal voltage Enhanced Boost: -20% of selected nominal voltage	
Surge Protection (Only available when AC Input included)	1000VA : 216 Joules 1500VA ~ 4000VA : 324 Joules	1000VA : 220 Joules 1500VA ~ 2500VA : 440 Joules 3500VA / 4000VA : 660 Joules
<b>☐ DC Input</b>		
Voltage	12Vdc(10Vdc ~ 16Vdc) : 1000VA / 1500VA 24Vdc(20Vdc ~ 32Vdc) : 1000VA / 1700VA / 2500VA 36Vdc(30Vdc ~ 48Vdc) : 1000VA / 1700VA / 2500VA 48Vdc(40Vdc ~ 64Vdc) : 1000VA ~ 4000VA 72Vdc(60Vdc ~ 96Vdc) : 1000VA ~ 4000VA 96Vdc(80Vdc ~ 128Vdc) : 1000VA ~ 4000VA 108Vdc(90Vdc ~ 144Vdc) : 1000VA ~ 4000VA	
Typical run time	Load <100%, No Limit 100%<Load<120%, 30 minutes typical 120%<Load<190%, 1 minute maximum 190%<Load, 0.25 second typical	
Protection	Input polarity protection (by DC relay) DC fuse protection (60A or 120A, depends on DC voltage and VA rating) Over current protection (2KHz Switching, real time protection) Under voltage protection (adjustable by using the remote set-up software) Over voltage protection (CPU control)	
Monitoring	Smart monitoring & warning for failed battery	
<b>☐ Communications &amp; Management</b>		
Interface port	UPSilon2000 compatible; optional for RS232 and/or USB	
Control panel	LCD or LED Selectable (Rack units with LCD only)	
Audible alarm	Alarm on battery : Low battery & Battery over voltage Alarm on abnormal operation : Over load, Short-circuit, & Over heat	
Green mode function (for models with AC input)	1% to 14% of full load (adjustable by using the remote set-up software) The default setting is OFF.	
Cooling fan control	Auto on / off, controlled by temperature & operation mode	
<b>☐ Environmental and Safety</b>		
Operating Temperature	Up to 1500 meters : 0°C to 40°C (32°F to 104°F)	
Transit/storage Temperature	-15°C to 55°C (5°F to 131°F)	
Relative Humidity	5 - 95% non condensing	
Operating Altitude	0 ~ 3000 meters	
Audible noise at 1M from surface of unit	≤50 dBA	

**Specifications of SV series EV ver.**

Safety Markings	CE	
EMC	Class A, EN50091-2, FCC part15, IEC1000-2-2	
Isolation	3KVac for 1 minute between DC input and AC output	
Quality control system	ISO 9001	
<b>☐ Physical</b>		
Dimensions: Unit / Shipping D×H×W (cm)	<b>Tower (EVT)</b>	<b>Rack (EVR)</b>
	1000VA/ 1500VA/ 1700VA/ 2500VA : 45 x 20 x 18 cm / 54 x 33 x 30 cm 3500VA/ 4000VA : 51 x 20 x 18 / 61 x 33 x 30 cm	1000VA/ 1500VA/ 1700VA/ 2500VA/ 3500VA : 3u x 45 cm / 59 x 33 x 59 cm 4000VA : 4u x 45 cm / 59 x 38 x 59 cm
Weight: Net / Gross (kg)	1000VA : 16/17kg ; 1500VA : 18/19kg 1700VA : 19/20kg ; 2500VA : 23/24kg 3500VA : 30/32kg ; 4000VA : 39/41kg	1000VA : 20 / 24 (kg) 1500VA/ 1700VA : 26 / 30 (kg) 2500VA/ 3500VA : 34 / 38 (kg) 4000VA : 48 / 52 (kg)
Packing	Export carton for each unit, 16 - 30 units per pallet	