

SOLAR INVERTER



Inverter Charger
OFF-GRID

500W - 3000W

Features:

- High reliability: adopt high-speed DSP control system, combine advanced SPWM technology and high-speed power MOS
- Operating mode selectable: energy storage priority or power supply priority
- No PID attenuation damage for solar panels to ensure their service life
- Flexible battery management system: auto switch three-stage charging mode shortens recharge time; wide charging current is selectable according to configured battery; flexible DOD (Depth of discharge) is settable to meet more applications
- AC input with effective online synchronous stabilizing technology
- Broad MPPT input voltage range
- No-load auto shutdown function (optional)
- Settable frequency (50Hz / 60Hz)
- Mobile APP monitoring
- Auto Power-On/Off function; real-time monitoring, test and intelligent startup / shutdown by RS232 or USB interface communicating with PC; remote monitoring by optional SNMP networks

Specification:

MODEL	SNV-GFW-512	SNV-GFW-1024	SNV-GFW-2048	SNV-GFW-3048
PV INPUT				
Max. input voltage (VoC)	60 Vdc	100 Vdc	150 Vdc	
Optimum operating voltage (Vmp)	16~48Vdc	33~80 Vdc	65~120 Vdc	
Max. charging current	50 A	50 A	50 A	65 A
Recommended PV configuration	700 W	1400 W	2800 W	3500 W
AC INPUT				
AC input range (bypass mode)	0~132 Vac / 0~264 Vac (high-end limit)			
Rated input voltage	100 Vac / 110 Vac / 115 Vac / 120 Vac or 200 Vac / 220 Vac / 230 Vac / 240 Vac \pm 25% (2500 W is only for 110 Vac; 3000 W is only for 220 Vac)			
Rated input frequency	50 Hz / 60 Hz \pm 5% / 10% / 15% (settable)			
Max. charging current	20 A			30 A
INVERTER OUTPUT				
Output voltage	100 Vac / 110 Vac / 115 Vac / 120 Vac \pm 2% or 200 Vac / 220 Vac / 230 Vac / 240 Vac \pm 2% (settable) (2500 W is only for 110 Vac; 3000 W is only for 220 Vac)			
Rated output power	500 W	1000 W	2000 W	3000 W
Power factor	1			
Rated output frequency	50 Hz / 60 Hz \pm 1% (inverter mode)			
Waveform	Sinusoidal			
Max. efficiency (resistive load)	\geq 78 %	\geq 82 %	\geq 85 %	
Sleep mode	Settable (< 3% load) access in \leq 2min			
Output voltage harmonic	\leq 3% (linear load)			
BATTERIES				
Battery voltage	12 Vdc	24 Vdc	48 Vdc	
Battery type	VRLA battery (default), GEL / LFP battery (optional)			
Charging current	5~50 A (settable)			5~65 A (settable)
DOD	Settable	10.5~13.2 Vdc	21~26.4 Vdc	42~52.8 Vdc
	Default	12 Vdc	24 Vdc	48 Vdc
EOD	Settable	9.6~12 Vdc	19.2~24 Vdc	38.4~48 Vdc
	Default	10.5 Vdc (default)	21 Vdc	42 Vdc
Equalizing charge voltage	Settable	13.8~15 Vdc	27.6~30 Vdc	55.2~60 Vdc
	Default	14.1 Vdc	28.2 Vdc	56.4 Vdc
Floating charge voltage	Settable	13.2~13.8 Vdc	26.4~27.6 Vdc	52.8~55.2 Vdc
	Default	13.6 Vdc	27.2 Vdc	54.5 Vdc
Restoration point of overvoltage	15.5 Vdc	31 Vdc	62 Vdc	
OTHERS				
Transfer time	3~6 ms (typical); \leq 10 ms (max.)			
Overload (linear load)	110% for 2 min, 125% for 1 min, 150% for 10s, 180% for 1s			
ECO mode (optional)	Load < 3% (settable, Yes / No settable)			
No-load shutdown (optional)	Load < 3%~50%, Yes / No settable			
Load adaptation	Inductive load: \leq 30%; capacitive load: \leq 50%; resistive load: \leq 100%			
Protections	Output overload - short-circuit - overdischarge - overcharge - battery reverse polarity - PV reverse polarity			
Lightning protection	Class III			
Communications	RS232 / USB / RS485 ; SNMP / Wi-Fi / GPRS (optional)			
Standards	IEC62040, IEC / EN 61000			
IP rating	IP21			
Display	LCD & LED			
Operating temperature	0 $^{\circ}$ ~40 $^{\circ}$ C			
Relative humidity	\leq 93%			
Noise	< 50 dB			
Dimensions (WxDxH) (mm)	365.5 x 442 x 210			
Packaged dimensions (WxDxH) (mm)	455 x 520 x 283			
Net weight (kg)	16.6	19.5	30.4	38.5
Gross weight (kg)	18.1	21	31.9	40

* All specifications subject to change without notice.