OFF-GRID SNV-GFT SERIES | Tower
3KVA - 8KVA

GFK11 Series Products use high speed DSP Control Unit, Advanced high speed IGBT, MOSFET components, with Pulse Width Modulation (SVPWM) technique disturbance type MPPT Control, and double conversion system configuration. Under high-speed DSP system control, the system can quickly track panels to do high-power, load change and efficient multi-level control system, even if the mains input voltage and frequency suddenly changes, over/under voltage, or power disturbances. It also canprovide the load with regulated voltage and frequency power. System has a reliable, environmentally friendly high intelligence and other characteristics.

Features:

High Reliability:

- High-speed micro-controller DSP digital control technology to achieve real-time control, parameter setting, data detection, self-test function to ensure high reliable operation of the system.
- With high speed switching characteristic, high voltage, high current, low internal resistance, low dissipation IGBT, MOSFET power components based, to ensure system security and reliability.

N+1 Modularised Mppt Tracking System:

Multipath MPPT control system access, independent input, operation. More suitable for roof project, to improve power generation efficiency of the panels.

Pv Proactive Power Supply Fucntion:

After detects PV energy, system will enter MPPT status automatically and it will also adjust the power distribution, priority in the use of PV energy.

Intelligent Battery Management System:

- In this system, AC rectifier, MPPT controller controlled by intelligent data exchange and communication system, user can set battery capacity by themselves; battery configuration can be set by the operation interface, system will automatically adjust the charging current, charging voltage, and charging mode.
- In special cases, International Technical Engineer can adjust the charging rate and battery number according to the system configuration.

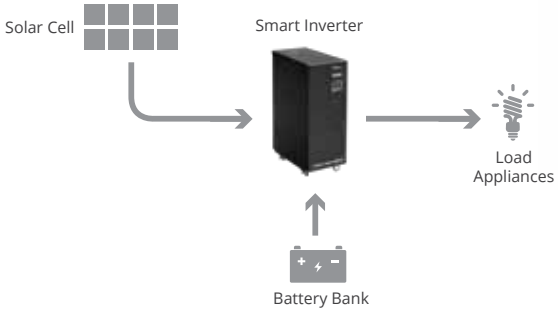
Plenteous Communication Interface:

- RS485, RS232 (standard) and SNMP (optional)
- Input dry contact to switch on/off inverter, clear abnormal, EPO remotely. Output dry contacts singles for remote alarm.

Plenteous Communication Interface:

system with intelligent peak load and shifting function, the user can set the appropriate time period electricity according to the local electricity policy, to achieve loadshifting features directly in order to bring economic value.

How It Works:



ICA solar

SMART **INVERTER**

OFF-GRID SNV-GFT SERIES 3KVA - 8KVA

TECHNICAL SPECIFICATION

MODEL	SNV-GF 3K08	SNV-GF 4K08	SNV-GF 3K16	SNV-GF 5K16	SNV-GF 6K16	SNV-GF 8K16
RATED POWER (KVA)	3 KVA	4 KVA	3 KVA	5 KVA	6 KVA	8 KVA
RATED POWER (KW)	3 KW	4 KW	3 KW	5 KW	6 KW	8 KW
OUTPUT POWER FACTOR	1					
BATTERY VOLTAGE	96 VDC		192 VDC			
BATTERY QUANTITY	8 UNITS, 12 V		16 UNITS, 12 V			
WORKING MODE	PV priority / AC priority					
PV INPUT						
MPPT VOLTAGE RANGE	96VDC ~ 200VDC		192VDC ~ 400VDC			
MAX. CHARGING CURRENT)	10A ~ 60A		10A ~ 40A	10A ~ 60A		
OPTIMUM OPERATING VOLTAGE (VMP)	120VDC ~ 142VDC		240VDC ~ 284VDC			
MAX. PV POWER (PMAX)	5760W		7680W	11520W		
CONVERSION EFFICIENCY	98%					
DISPLAY						
PANEL INDICATOR	LCD + LED					
AC MODE						
INPUT VOLTAGE RANGE	165VAC ~ 275VAC					
INPUT FREQUENCY RANGE	40 ~ 70Hz (overloacking: auto transfer to DC power supply)					
OUTPUT VOLTAGE PRECISION	220VAC ± 5%					
INPUT PF (AC/DC)	≥ 0.8					
MAX. EFFICIENY	88% Inverter On					
OVERLOAD	110 Transfer to bypass in 255s ; 120% transfer to bypass in 60s ; 150% transfer to bypass in 10s					
MAX. CHARGING CURRENT	8A		12A			
SHORT CIRCUIT PROTECTION	Current-limiting, transfer to bypass, air circuit-breaker					
INVERTER MODE						
INVERTER OUTPUT VOLTAGE	220VAC±5%					
OUTPUT FREQUENCY	50Hz / 60 Hz ± 1% auto-sense					
OUTPUT POWER FACTOR	1					
DISTORTION	< 5% linear load					
PV-AC TRANSFER TIME	0 ms					
MAX. EFFICIENCY	92%					
OVERLOAD	110 Trnsfer to bypass in 255s ; 120% transfer to bypass in 60s ; 150% transfer to bypass in 10s					
ECO MODE (OPTIONAL)	Load < 5% System automatically shutdown at 1 Min. Transfer to bypass power supply					
SHORT CIRCUIT PROTECTION	Current-limiting, transfer to bypass or system auto shutdown					
ALARM						
UTILITY POWER ABNORMAL	4 s per beep, auto mute in 40 s					
BATTERY LOW VOLTAGE	0.2 s per beep					
OVERLOAD	1 s per beep					
COMMUNICATION						
COMM. INTERFACE	RS232 / USB / RS485 / SNMP					
DRY CONTACT	PV Failure, Battery Low Voltage, Overload, Bypass, Inverter Failure, Generator ON/OFF					
OTHERS						
OVERLOAD PROTECTIONS	110% for 255 s; 125% for 60 s; 150% for 10 s					
WIRING	Terminal Blocks					
SURGE PROTECTION	Optional					
EMI	EN62040-2: 2006 ; EN61000-3-2: 2006 ; EN61000-3-3: 2008					
IP RATING	IP 20					
AMBIENT TEMPERATURE	0 ~ 40C					
AMBIENT HUMIDITY	10% ~ 90% (non condensing)					
NOISE	< 50dB					
WORKING ALTITUDE	2000M (derating 1% for each additional 100M)					
DIMENSIONS (W x D x H) mm	560 x 265 x 725					
PACKING DIMENSIONS (W x D x H) mm	662 x 360 x 905					
WEIGHT	76	80	60	67	69	85
PACKING WEIGHT	85	89	69	76	78	94

Specifications subject to change without prior notice