

Pure sine wave off grid inverter

G-Solar series



Features:

- Intelligent power saving mode: Automatically start inverter when it detect load exceed 10W and possible to continuous operation even with small load
- High inverter conversion efficiency up to 93%
- Multi-setting: Battery bank priority mode or Mains priority mode
- Isolated and pure sine wave technique: SPWM Modulation and high speed power MOS technique
- Wide input range
- Friendly alarm system
- Comprehensive protection function
- Unattended and intelligent monitoring
- Auto frequency selected
- Fan is temperature and power controlled
- Automatic restart the inverter after battery recovery
- Parallel Operation, Max. three inverters parallel (Optional)

Model	G-Solar 1012	G-Solar 1024	G-Solar 2024	G-Solar 2048	G-Solar 3024	G-Solar 3048
Inverter features						
Nominal battery voltage	12V	24V		48V	24V	48V
Input voltage range	10-15V	20-30V		40-60V	20-30V	40-60V
Continuous power	1000VA		2000VA		3000VA	
Power 30 min	1200VA		2400VA		3600VA	
Power 10 sec	1500VA		3000VA		4500VA	
Load detection (stand-by)	10W, automatic restart the inverter once the load exceed 10W					
Power factor	0.8					
Maximum efficiency	90%	91%	92%	93%	92%	93%
Consumption OFF/Stand-by/ON	0W/10W/ 15W	0W/10W/ 15W	0w/10w/20 W	0W/10W/ 15W	0W/10W/ 25W	0W/10W/ 25W
Output voltage	Sine Wave 220V/230V/240V± 5%					
Output frequency	50 Hz / 60Hz ± 0.1%, frequency adaptive					
Harmonic distortion	<3% for leaner load					
Overload protection	120% shutdown at 30min, 150% shutdown at 10s					
Short-circuit protection	Systems automatically shut down					
Overheat protection	Warning before shut-off- with automatic restart					
Bypass features						
Output Frequency /voltage range	Same as input(Grid or Generator)					
Transfer features	Inverter-line transfer time no more than 10ms, Default battery priority mode					
Overload protection	Output breaker protection					
Short-circuit protection						
AC charger features (Optional)						
Charge voltage	13.7V	27.4V		54.8V	27.4V	54.8V
Max. charge current	8A					
Maximum input voltage	290VAC					
Input voltage range	110VAC- 290VAC					
Input Frequency range	45-65 Hz					
Batteries features(factory setting/charging current and voltage adjustable)						
DC start voltage	10.5	21		42	21	42
Deep-discharge protection	10.8	21.6		43.2	21.6	43.2
Battery shutdown voltage	10	20		40	20	40
Type of battery	Sealed lead acid, vented, Gel, NiCd, AGM					
General data						
Inverter-line transfer time	5mS typical value Max.10mS					
Ventilation	Forced air cooling					

Panel indicator		LED display				
Communication interface (Optional)		RS232 standard/RS485, Ethernet optional				
EMC		IEC 61000-6-1: 2007 IEC 61000-6-3: 2007				
Safety		IEC 62019/AS3100				
IP class		IP20				
Storage temperature		-25 to 70°C				
Operation temperature		-20 to 60°C(40—60 °C derating load)				
Ambient humidity		10% ~ 90%(Non Condensed)				
Altitude		<1000m for Nominal power (Over 1000m the power derating is 1 % every 100m)				
Noise		≤ 50dB				
dimension D*W*H (MM)	Hanging model	370x303x90				
	Tower model	370x303x90				
Weight (kg)						
Warranty		Two years standard				

Data may change without notice