715*365*310

640*370*240



GI SERIES Pure Sine Wave Inverter

■ PRODUCT OVERVIEW

With the double MCUs, the product provides different charge voltage and charge current to realize charge management for batteries of different types. Its mains supply preferred mode, energy-saving mode and battery preferred mode are all settable, thus making it easy to meet the different application needs of users. It has an LCD. It is widely applied to families, schools, streets. frontier defense, pasturing areas, industrial equipment, satellite communication equipment, military vehicle-borne equipment, ambulances, police cars, ships, etc



MAIN FEATURES

Excellent performance because of double MCU Intelligent design

- Pure sine wave output for compatibility with loads of different types
- Visualization of operation status of the equipment through a digital LCD
- A wide range of input voltage, accurate output and ull automatic voltage stabilization
- Settable battery type and charge current for the charge management of batteries of different types of FT/FT-8
- Settable mains supply preferred mode, energy-savingmode and battery preferred mode for easy meeting of the needs of different users
- Overall protection functions (battery overvoltage protection, battery under voltage protection, overload protection, short circuit protection and over temperature protection)

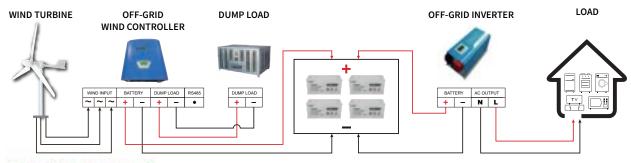
TECHNICAL INDEXES

Technical Indexes-1

Model: GI	: GI 0.3KW		0.7KW	0.7KW	1KW			
Rated power	300W	500W	700W	700W	1000W			
		Battery						
Rated voltage	12VD	C/24VDC	24VDC	12VDC	12VDC/24VDC			
		Input						
Voltage range		73	-138VAC/145-27	5VAC				
Frequency		45–65Hz						
Product size: L*W*H(mm)		302*122*188		316*149*215				
Package size: L*W*H9mm)		410*	215*280					



OFF-Grid Wind Turbine SYSTEM



Technical Indexes-2

Model: Gt	1KW	1.5KW	2KW	ЗKW	4KW	5KW	6KW	8KW	
Rated power	1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W	
			Bat	tery					
Rated voltage		12VDC/24VDC/48VDC				2/48VDC	48V	48VDC/96VDC	
Charge current				30A (de	fault) -C0-	C6			
Battery type	U0-U7								
			Inc	out					
Voltage range				85-138V	AC/170-27	5VAC			
Frequency		45–65Hz							
Product size: L*W*H(mm)			7*179		555*307*18		9	653*332*260	
Package size:		550*31	0*220		e	40*370*240		715*365*316	

550*310*230

Technical Indexes-3

L*W*H9mm)

	Common technical Index
	Output
Voltage range	110VAC/220VAC; ±5%(Inversion mode)
Frequency	50/60Hz ± 1%(Inversion mode)
Output wave	Pure sine wave
Conversion time	< 10ms(Typical load)
Efficiency	>85% (80% resistive load)
Overload	110-120%/30S; >160%/300ms;
Protection function	Battery overvoltage protection, battery undervoltage protection, overload, protection, short circuit protection, overtemperature protection, etc.
Operation of Ambient Temperature	0–40℃
Ambient temperature for storage	-15 - +50°C
Operation/Storage ambient	0-90% No condensation

P.S.: We keep the right to change without any information.

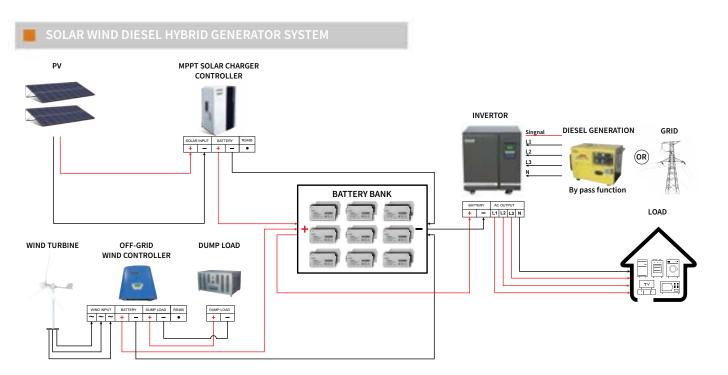
Solar Inverter Series 2/



G I SINGLE-PHASE POWER-FREQUENCY INVERTER

MAIN FEATURES

- High reliability
 Frequency tracking, noise filtering and low distortion in inverter output because of double-conversion design
- High adaptability
 A wide range of input frequency, which realizes stable operation of fuel generators
- High optimal performance of the battery An intelligent battery management technology, which guarantees a longer battery life and decreases the times of battery maintenance An advanced constant-voltage charge technology, which activates the battery to the most extent, saves the charge time and guarantees a longer battery life
- Overall and reliable protection
 A power-on test function, which can avoid the faults because of hazards of the inverter
- Overall automatic protection and alarms such as output overload protection
- Efficient IGBT (Insulated Gate Bipolar Transistor) inversion technology
 Good high-speed switching feature, large-voltage and large-current operating characteristics,
 and voltage drive of IGBT (The fifth-generation IGBT has a lower saturation voltage
 drop and higher operation efficiency and reliability.)



Greet

Pure sine wave inverter with charger



The product is a highly stable and reliable power supply designed by GREEF to meet the high reliability requirement for power grid and network systems. Its high quality enables it to provide safe, reliable and overall protection for loads such as data centers of users, industrial control equipment, precise medical system equipment and household appliances. It has perfect protection functions and high reliability because of a full digital vector control technology based on real time processing by DSP, MCU and DDC. In both the pure sine wave output mode and the inversion mode, it can output a pure sine wave power supply with low distortion, thus providing the best power supply guarantee for the loading equipment of users.

TECHNICAL INDEXES

Model: GI	6KW	8KW	10KW	12KW	15KW	20KW		
Rated Power	6KW	8KW	10KW	12KW	15KW	20KW		
	Batt	lery						
Rated Voltage	96V	/DC/192VI	ос		192VDC			
Charge Current			10A	-20A				
Low Voltage Protection	84V	DC/168VD	C	168VDC				
	Inp	out						
VoltageRange		88	-132VAC/	176-264V	AC			
Frequency			45-6	5-65Hz				
	Out	put						
Frequency	50/60Hz ± 1%(Inversion Mode)							
Voltage Range	110VAC/220VAC; ±5%(Inversion Mode))		
Output Waveform	Pure sine Wave							
Conversion Time			<10ms(Ty	pical Load)	Ŋ			
Efficiency	>85% (1	100% Resis	tive Load)	>90% (100% Res	istive Load)		
Overload		110-	-120%/305	;>160%/3	800ms;			
ProtectionFunction		protection	, overload		short			
Operation of Ambient Temperature			0-4	o°C				
Ambient Temperature for Storage			-15 -	+50℃				
Operation/Storage combient		0	-90% No d	condensatio	on			
Product Dimensions:DxHxh(mm)			555*368*	695	rature protection, etc.			
Gross Weight (KG)	80	90	110	130	150	170		

/3 Solar Inverter Series 4/



GIT THREE-PHASE POWER FREQUENCY INVERTER



PRODUCT OVERVIEW

The product applies to different types of loads because of its full digital design and real pure sine wave output. With power-frequency design and highly stable output voltage and frequency, it can operate continuously for a long time. Thus, it avoids the disadvantages of direct use of the mains supply, such as interruption of power supply, voltage instability, noise, and lightning attacks, and the disadvantage of short power supply time of small UPSs, guaranteeing continuous and reliable operation for electrical equipment. Sine wave inverter supplies are the best guarantee for the safe and reliable operation of systems. The product is now widely used in China Telecom, China Mobile, China Unicom, aerospace, railways, financial management, office automation, industrial automatic control, medical health, military scientific research, etc.



MAIN FEATURES

- Excellent performance because of an MCU intelligent control technology;
- A wide range of applicable loads because of powerfrequency transformer design and pure sine wave AC output;
- A wide range, high accuracy, and full automatic voltage stabilization;
- Overall protection functions (overload protection, short circuit protection, overvoltage protection, undervoltage protection and overtemperature protection);
- Simple LEDs and a LCD for visualization of operation status of the equipment

TECHNICAL INDEXES

Model: GIT	1KW	2KW	зкw	4HCW	5KW	7KW	SKW	10KW		
Rated power	1KW	2KW	зкw	4KW	5KW	7KW	8KW	10KW		
DC voltage		48 V	/DC			48VDC	/96VDC			
Input voltage		The	ee-phase fo	ur-wire syste	em + ground wire 380V ± 20%					
Input frequency		45—65 Hz								
Output voltage		380VAC ± 5% (three-phase four-wire system)								
Output frequency		50Hz ± 1%								
Switching time	Switc	Switching from the mains supply mode to the battery mode: 50ms; switching from the battery mode to the mains supply mode: 25ms								
Charge current	Max 8A									
overter output protection		100-120%, 30s; > 120%, 100ms								
Noise				<4	5dB					
Ambient temperature for operation				0-	10°C					
Ambient temperature for storage				-15 -	+50℃					
Relative humidity for operation/storage			Ş	0-90% (no	condensation)				
Altitude for operation				0-3	3,000m					
Altitude for storage				0-1	5,000m					
Product dimensions D×W×H (mm)		560 × 23	30×570		590×470×730					
Packing dimensions D×W×H(mm)		640 × 30	00×730		690×570×850					
Net weight/gross weight (kg)	29/40	38/48	31/51	50/61	104/112	106/120	107/125	117/137		

/5 Solar Inverter Series



GIT THREE-PHASE POWER-FREQUENCY INVERTER

PRODUCT OVERVIEW

The product can provide reliable power supply protection for large data centers, network computer rooms as well as the electric power links of fields such as manufacturing, traffic and energy to meet the high reliability requirement of users for large-power inverters. Based on the DSP accurate control technology and the double built-in MCUs, the product can output stable and pure sine waves and provide safe and reliable power supply protection for users.



Advanced operation mode Frequency tracking, phase-locking voltage stabilization, noise filtering and prevention of impact by fluctuation of the power grid realized in output of the inverter

The best power supply guarantee for the loading equipment of users contributed by a full digital vector control technology based on real-time processing by DSP, MCU and DDC

- Efficient IGBT (Insulated Gate Bipolar Transistor) inversion technology Good high-speed switching feature, large-voltage and large-current operating characteristics, and voltage drive of IGBT (The fifth-generation IGBT has a lower saturation voltage drop and higher operation efficiency and reliability.)
- High adaptability A wide range of input frequency (45Hz ~ 65Hz), which realizes stable operation of fuel generators
- Great loading capacity Suitability for industrial applications such as machine tools and wire cutters
- Reliable performance. A power-on test function for timely discovery elimination of potential hazards High stability and reliability guaranteed by integration of functions including AC input overvoltage protection, AC input undervoltage protection, output





overload protection, short circuit protection, overcurrent protection, bus overvoltage protection, overheat protection, fan fault protection, auxiliary power supply fault protection, battery undervoltage warning protection, battery overcharge protection, etc.

- Management function Big LCD, visualized display of operation statuses through flow charts, intelligent icon touch buttons, tabular data, event records, etc. Visualization of parameters of the inverter by means of communication with a computer via a RS232/RS 485 interface with help of intelligent monitoring software of the inverter
- Intelligent battery management intelligent battery charge: Adjustment of the battery charge parameter according to the battery configuration of the user, and switching between equalizing charge and floating charge, temperature compensating charge, and discharge management according to the power supply conditions, which may make the battery life longer and reduce burden of the administrator Intelligent battery fault detection: Measurement of single parameters, display of the measurement results on the LCD, and immediate alarming and notification for the administrator upon any battery fault
- Personalized settings: Proper adjustment of the input parameters according to the input power supply conditions

TECHNICAL INDEXES

Model: GIT	GIT-TOKW	GIT-20KW	GIT-30KW		GIT-BOKW	GIT-BOKW	GIT-100KW	GIT-150KW	OIT-200K
Rated capacity	10KW	20KW	30KW	50KW	60KW	BOKW	100KW	150KW	200KW
Operation mode and principle	PWM (po	ulse width mo	dulation) bas	ed on DSP ac isolation of	curate contro the output po	technology a	and double bu	ilt-in MCUs	Complete
				AC input					

Phase number	Three-phase +N+G	
Voltage	AC220V/AC380V ± 20%	
Frequency	50Hz/60Hz ± 5%	

DC input

DC voltage	DC192V/DC220V/DC240V/DC384V	DC384V
Floating battery	13.6V of each battery ×	battery quantity [13.6V x 16 batteries = 217.6V]
Cut-off voltage	10.8V of each battery ×	battery quantity [10.8V x 16 batteries = 172.8V]

AC output

Phase number	Three-phase +N+G					
Voltage	AC220V/AC380V ± 1% (steady load)					
Frequency	50Hz/60Hz ± 5% (mains supply) 50Hz ± 0.01% (battery)					
Efficiency	≥90% (load: 100%)					
Output waveform	Sine wave					
THD	Linear load:	<3%; non-linear load: <5%				
Dynamic load voltage transient	< ±5%	(jump from 0 to 100%)				
Instant recovery time	47	<100ms				
Time of switching between he battery and the mains supply	38-58	<4ms				
Unbalanced voltage	<±3% < ±	1% (balanced load voltage)				
Overload capacity	120%, 20s; > 150%, 100ms	125%,20s;>150%,1s				

System indexes

Operation efficiency	≥90% (load: 100%)					
Computer communication interface	RS 232/RS 485 (SNMP remote monitoring network adapter)					
Operating temperature	-10-40℃					
Relative humidity	0 ~ 90% (no condensation)					
Noise	40-50dB	50-60dB	60-70dB			

Structure

External dimensions D×W×H(mm)	580*750*920			608*728*1475	1138*795*1725			1138*945*1725	
Weight (Kg)	180	220	300	470	620	680	730	954	980

Solar Inverter Series