



• 太阳能逆变器

• 储能电池

• 太阳能控制器

• 光伏组件

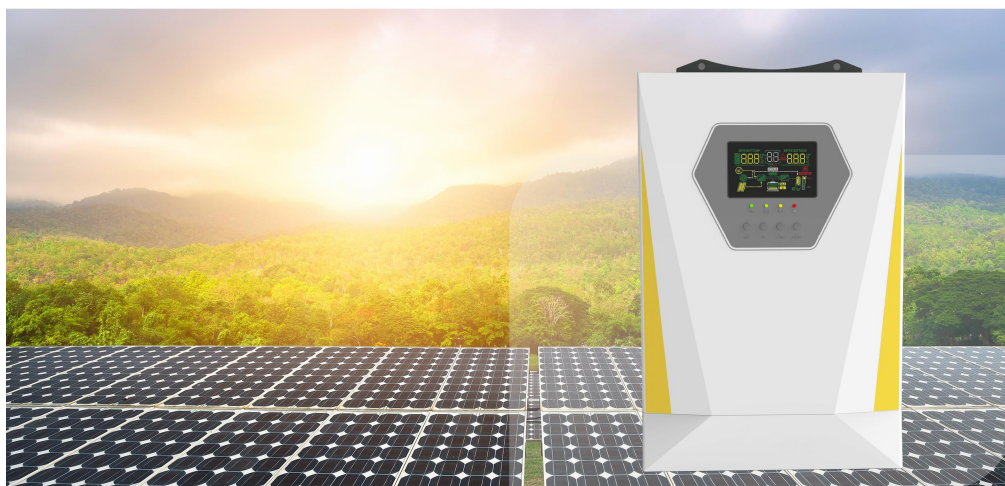
• UPS

• EPS

让世界永不停电

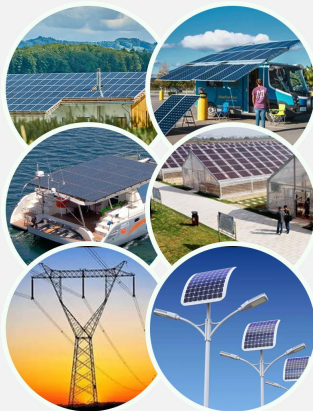
Convenient  
for you  
**Never  
Power Off**  
**Inverter**

Solar inverter / Solar energy system / Solar controller



## SOLAR INVERTER GD SERIES 3KW

### Application



### Features

-  Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging
-  Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel/Mains/Battery Power Shares
-  Utility Charging Voltage/PV Charging Voltage Adjustable, Match Different Battery Charging Requirements
-  Slim Body, Convenient Installation And Transportation
-  Battery Reverse Connection Protection with Fuse Switch, Safer Installation
-  PF1.0, High Efficiency, Lower Consumption, Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
-  Support Working without Battery: Reduce Solar System Cost
-  Parallel Function Up to Maximum 9 Units: Enlarge More Loads
-  High Precision of Output Voltage, ±5%, Take Care of Your Appliances
-  Communication Option: External WIFI, Supervise at Any Time

Model		GD3024ML	GD3024MH	GD5048MH
AC Input voltage	Input Formation	L+N+PE		
	AC Input	208/220/230/240VAC		
	Input Voltage Range	154~264VAC±3V (	Normal Mode) 185~264VAC±3V (	UPS Mode)
	Frequency	50/60Hz ( Adaptive)		
Output	Rated Power	3000W		5000W
	Output Voltage	208/220/230/240VAC±5%		
	Output Frequency	50/60Hz±0.1%		
	Output Wave	Pure Sine Wave		
	Transfer Time(Adjustable)	10ms for Computer Equipment,20ms for Household Equipment		
	Peak Power	6000VA		10000VA
	Overload Ability	Battery Mode : 1min@102%~110% load 10s@110%~130% load 3s@130%~150% load 200ms@>150% load		
	Peak Efficiency(Battery Model)	>94%		
Battery	Rated Voltage	24VDC		48VDC
	Constant Charging Voltage (Adjustable)	28.2VDC		56.4VDC
	Float Charging Voltage (Adjustable)	27VDC		54VDC
Charger	PV Charging Method	MPPT		MPPT
	Max PV Input	1500W	4000W	5500W
	MPPT Tracking Range	30~145VDC	120~500VDC	120~500VDC
	Best VMP Working Range	30~115VDC	300~400VDC	300~400VDC
	MAX PV Input Voltage	150VDC	500VDC	500VDC
	MAX PV Charge Current	60A	100A	100A
	MAX AC Charge Current	60A	60A	100A
	MAX Charge Current	120A	100A	100A
	Display	LCD	Can display operating mode/load/input/output	
CommunicationPort	RS232	5PIN/Pitch2.54mm,		Baud Rate 2400
	Expansion Slot Communication Interface	Lithium Battery BMS Communication Card,WIFI 2×5PIN/Pitch2.54mm		
	Parallel Interface	Not Support Parallel	Support Parallel	
Ambient Temperature	Operating Temperature	0°C~40°C		
	Storage Temperature	-15°C~60°C		
	Ork Altitude	No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer		
	Operating Environment Humidity	Non Condensing		
	Noise	<50dB		
Dimension	L*W*H (mm)	495*312*125mm		
Standards and Certifications		EN-IEC 60335-1,EN-IEC 60335-2-29,IEC 61209-1		













## SOLAR INVERTER UD SERIES 500VA-10KVA

### Application



### Features

-  Pure sine wave output
-  Can support WIFI / GPRS
-  MPPT efficiency max 98%
-  Optional built-in MPPT/PWM30-60A controller
-  DC start & automatic self-diagnostic function
-  Automatically send signal to start generator
-  High efficiency design for optimized battery performance
-  Selectable charging current based on applications
-  AC start-up voltage auto restart voltage
-  lead acid battery/Lithium battery

### UD Series

Model	UD0512R	UD0812R	UD1012R	UD1512/24R	UD1012/24	UD1512/24	UD2012/24	UD3024/48	UD5024/48
AC Input voltage	220VAC (standard)				220VAC (standard)				
Input voltage range	154-275VAC±5V (Nor Model)				154-264VAC±3V (Nor Model) 185-264VAC±3V (UPS model) 175-285VAC±3V (AVR Type)				
Input frequency	50/60Hz±5%				50/60Hz±5%				
Out put power	500VA 300W	800VA 500W	1000VA 800W	1500VA 1200W	1000VA 800W	1500VA 1200W	2000VA 1600W	3000VA 2400W	5000VA 4000W
AC model output Voltage	With AVR function 220V±10%				The output voltage under the mains is the same as the input voltage (with AVR function 220V±10%)				
AC model outout frequency	The output frequency under the mains is the same as the input frequency				The output frequency under the mains is the same as the input frequency				
Battery model output voltage	220VAC±3%				220VAC±10%				
Battery model output frequency	50HZ or 60HZ±1%				50HZ or 60HZ±1%				
Battery model output wave	Pure sine wave				Pure sine wave				
Battery type	External lead-acid battery, Gel battery, water battery or Lithium battery				External lead-acid battery, Gel battery, water battery or Lithium battery				
Battery voltage	12VDC	12VDC	12VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	24/48VDC	24/48VDC
Battery charging voltage	13.75VDC	13.75VDC	13.75VDC	13.75/27VDC	13.75/27VDC	13.75/27VDC	13.75/27VDC	27/54VDC	27/54VDC
Maximum PV array power	12V:400W 24V:800W				12V:800W 24V:1600W 48V:3200W				
Solar input voltage range	12V: PWM 15V-30VDC 24V: PWM 30V-60VDC				12V: MPPT 15V-150VDC/PWM 15V-30VDC 24V: MPPT 30V-150VDC/PWM 30V-60VDC 48V: MPPT 60V-150VDC/PWM 60V-105VDC				
Maximum PV Display Open Circuit Voltage	12V: PWM 30VDC 24V: PWM 60VDC				12V: MPPT 150VDC/PWM 30VDC 24V: MPPT 150VDC/PWM 60VDC 48V: MPPT 150VDC/PWM 105VDC				
Maximum solar charging current	30A				60A				
Maximum AC Charge Current	8A	15A	20A	30A/18A	15A/8A	30A/15A	40A/20A	30A/15A	42A/21A
Battery charging voltage range	154-275VAC±5V				154-280VAC				
Transfer time	≤10ms				≤10ms (UPS ) / ≤20ms (INV )				
load peak ratio	(MAX) 3:1				(MAX) 3:1				
Protective function	Under inverter: overload protection, short circuit protection, low voltage protection, (with battery anti-reverse connection, board).								
Status Display	You can view parameters such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the page keys.								
Voice prompt	Low battery protection buzzer long beep Low battery buzzer beeps every second Machine fault buzzer beeps Overload buzzer beeps  When the overload is less than 130%, the buzzer will sound every second, and the output will be turned off after 30s. When the overload is greater than 150%, the output will be turned off after 300ms.								
Operating temperature					0°C~40°C				
Storage temperature					-15°C~45°C				
Relative temperature					-10°C~90°C no condensation				
Noise					<45dB				
Machine size (L*W*H)mm	325*263*123MM				512×320×136MM				





## SOLAR INVERTER GY SERIES 10KW

### Application



### Features

-  External battery design, can be loaded under the battery mode for a long time
-  Starting Up Automatically when mains input
-  Two working models
-  High current charging function
-  Wide AC input range
-  Shutdown charging function
-  High efficiency design for optimized battery performance
-  Compatible generator
-  Monitor the working status through the display
-  Automatically adjust the mains boost, buck, and stabilize the voltage output

### GY series

Model	GY3024MH	GY5048MH	GY10048MH
Input			
Input system	L+N+PE		
Rated input voltage	208/220/230/240VAC		
Voltage range	154~264VAC±3V ( Normal mode) 185~264VAC±3V ( UPS mode)		
Frequency range	50Hz/60Hz( Self-adaption)		
Output			
Output rated power	3000W	5000W	10000W
Output voltage	208/220/230/240VAC±5%		
Output frequency	50/60Hz±0.1%		
Transfer time	Computer equipment 10ms, Household appliances 20ms		
Waveform (battery)	Pure sine wave		
Peak power	6000VA	10000VA	20000VA
Overload capacity	Battery mode: 1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 200ms@>150% Load		
Peak efficiency (battery mode)	>94%		
Battery			
Nominal voltage	24Vdc	48Vdc	48Vdc
Constant charge voltage (optional)	28.2Vdc	56.4Vdc	56.4Vdc
Floating charging voltage (optional)	27Vdc	54Vdc	54Vdc
Charger			
PV charging mode	MPPT	MPPT	MPPT Double MPPT
PV Maximum input power	4000W	5500W	2×5500W
MPPT Input voltage range	120~500Vdc		
Optimal Vmp operating range	300~400Vdc		
Maximum PV input voltage	500Vdc		
Maximum PV charging current	100A	100A	160A
Maximum mains charging current	60A	100A	160A
Maximum charging current	100A	100A	160A
Environmental parameter			
Operating ambient temperature	0~40°C		
D x W x H (mm)	533x621x142		
Weight (for reference) KG	TBD		





## INVERTER HB SERIES 10KVA/20KVA

### Application



### Features

-  Pure sine wave inverter, suitable for different loads
-  Tower structure chassis, according to the habit of foreign use with handle
-  Independent ventilation channel, heating element pressure and control area separation, the machine is more stable
-  The panel has a main power switch, when not in use, the device can be completely power-off without power consumption
-  Output short circuit protection function
-  According to the user needs, you can adjust a number of parameters

### HB series

Model	HB0512	HB0812	HB1012	HB1512	HB1524	HB2024	HB3024	HB3048	HB5048
Power input			220VAC / 110VAC						
Range of Input Voltage	145-275VAC±3V 73-137VAC±3V					154-264VAC±3V 77-132VAC±3V		185-264VAC±3V 92-132VAC±3V	
Input Frequency	50/60Hz±5%								
Output Rated Power	400W	640W	800W	1200W	1200W	1600W	2400W	2400W	4000W
INV mode, Output voltage	The output voltage under mains power is the same as the input voltage								
INV mode, Output frequency	The output frequency under mains power is the same as the input frequency								
INV mode, Output voltage	220VAC±10%(110VAC±10%)								
INV mode, Output frequency	60HZ±1%								
INV mode, Output waveform	Pure Sine Wave								
Battery type	External lead acid battery or water battery								
Battery Voltage	12VDC				24VDC			48VDC	
Battery Charging Voltage	13.75DC				27VDC			54VDC	
Maximum AC Charging Current	8A	13A	18A	30A	15A	20A	30A	15A	22A
Range of Battery Charging Voltage	150-280VAC								
Transfer Time	≤10ms								
Load peak ratio	(MAX) 3:1								
(W) Standby	Toroidal transformer								
	6W	8W	9W	11W	12W	15W	16W	16W	23W
Protections	Overload ,short circuit ,High & low voltage , battery reverse protections								
Status display	LCD dot matrix fine screen					LCD dot matrix fine screen + LED display			
						Through the page key, you can view the AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters.			
Audible alarm	Low battery protection-continuous beeping Low battery protection-1 second beeping Overload-continuous beeping  Overload less than 30%-1 second beeping and shutdown the output after 30 seconds; Overload more than 150%,shutdown the output after 300 ms Malfunction-continuous beeping								
Working Temperature	0-40°C								
Storage Temperature	-15°C-45°C								
Relative Temperature	-10°C-90°C				(-10°C-90°C Non condensing)				
Noise(dB)	<45dB								
Dimension L*W*H(mm)	300*144*213					385*190*382			
Packing Dimension L*W*H(mm)	390*225*318					470*260*420			
Weight(kg)	6.5KG	6.9KG	7.8KG	8.59KG	9.5KG	14.6KG	17.2KG	17.2KG	22KG





## SOLAR SYSTEM SQ SERIES 1000VA-1500VA

### Application

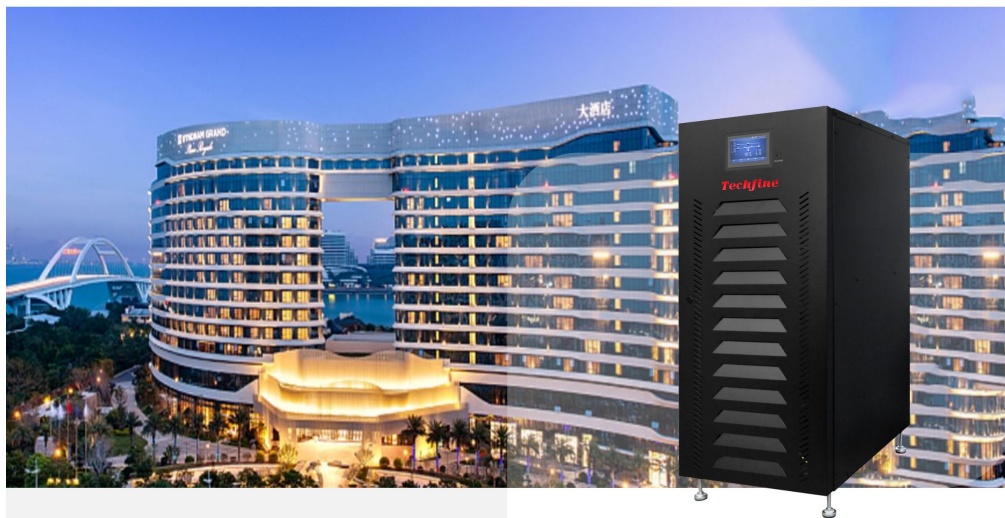


### Features

-  Pure sine wave output
-  Integrated photovoltaic power generation energy storage system
-  Superior AC loading capacity
-  Built-in Solar Charge&maintenance-free battery
-  High-efficient Charging
-  Portable & Removable

### SQ Series

Model	SQ1012-100P	SQ1524-100M
Battery Voltage	12V	24V
In-built battery specification	100AH/12V	100AH/12V*2
Rated power	1000W	1500W
Output Voltage	110VAC/220VAC	
Output Frequency	50/60Hz	
Output Waveform	Pure Sine Wave	
Rated Voltage	220VAC---(* means an optional function)	
Charge Current	12A (10-20A )	12A (10-18A )
Maximum Photovoltaic Voltage(VDC)	≤25V	≤145V
Charge Voltage (VDC)	13.7V	27.4V
Rated Charge Current(A)	(PWM)5-10A	(MPPT)30A
Maximum Power(Wp)	360Wp	800Wp
Voltage of overcharge protection(VDC)	14.2V	28.4V
Voltage of overcharge recovery(VDC)	14.0V	28.0V
Voltage of floating charge(VDC)	13.7V	27.4V
Voltage of high-voltage protection(VDC)	16V	32V
Voltage of high-voltage recovery(VDC)	15.2V	30.4V
Voltage of low-voltage recovery(VDC)	13V	26V
Voltage of low-voltage protection(VDC)	11V	22V
5VDC USB Output Port	2units/MAX 2A	
12VDC Output Port	2 DC Ports (MAX 2A)	
Starting Temperature of the exhaust fan	>45°C	
Ambient Temperature for operation	0-40°C	
Ambient Temperature for storage	-25-55°C	
Operation/Storage Conditions	0-90%(no condensation)	
External dimensions: D*W*H(mm)	423*260*453	430*380*534
Packing dimensions: D*W*H(mm)	520*370*520	545*480*620





## INVERTER GSS SERIES 16KVA-160KVA

### Application



### Features

-  Built-in output isolation transformer
-  Adapt to various load conditions
-  Digital control realizes online double conversion
-  No mains DC start
-  Up to 4 units can be operated in parallel
-  Multiple communication interface
-  Front maintenance design
-  Industrial design for a variety of harsh conditions

### GSS series

型号Model	GSSI6360	GSS20360	GSS30360	GSS50360	GSS60360	GSS80360	GSSI00360	GSSI20360	GSSI60360
CAPACITY	16KVA/12.8KW	20KVA/16KW	30KVA/24KW	50KVA/40KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	160KVA/120KW
Rated voltage	3 x 380vAc/400vAC (3-phase + N line)								
Voltage Range	285VAC ~ 475VAC								
Frequency Range	50/60 Hz ±10 %								
Output Voltage	3 x 380VAC/400VAC(3-phase + N line)								
Voltage stability	steady state: ±1% transient: ±5% (load change 100-0-100%)								
Frequency synchronization range	Mains lost ±0.1 Hz Mains lost ±0.1 Hz								
Frequency tracking rate	±1 Hz/S								
WaveForm	pure sine wave								
total harmonics(THDv)	<2%(Linear load ) <5%(nonlinear load )								
Phase unbalance	120°±1%(balance load ) 120° ±2%(50% un-balance load )								
Dynamically adjust time	<60ms 90%return to 90% of rated value								
overload capacity	110%- 150% for 10min-1min; 150% ~ >160%for 1min-200ms; >160% for 200ms								
crest factor	3:1								
Load power factor range	0.6-1 (capacitive or inductive )								
@100% unbalanced load	<1%								
protect or restrict	Extremely heavy overload; short circuit,voltage ms limit inrush current peak voltage limit								
Overall efficiency									
AC MODE	90%		91%				92%		
AC MODE	91%		92%				93%		
BY PASS TYPE	static switch								
BY PASS VOLTAGE	3 x 380VAC/400VAC								
FREQUENCY	50/60 Hz								
CONTROLLER	microprocessor								
Inverter to Bypass Transfer Time	Sync mode: 0ms , Asynchronous mode: 10ms								
overload capacity	150%~ 180%1h~30s; 180% ~ >200% 30s~200ms; 200ms for >200%								
switch to bypass	Overload 160%: switch immediately								
switch back to contravariance	Automatically switch after alarm is cleared								
Maintenance bypass									
Type	Uninterrupted								
VOLTAGE	3 x 400v (3 phase + N line)								
FREQUENCY	50/60 Hz								
Charging & batteries									
Number of batteries(12v)	29/30/31/32 (Adjust)								
charging method	Optional: constant voltage charging/constant current charging								
recharging current	Default 10A, Max 40A								
Battery Type	Gel battery, Sealed lead-acid battery, nickel-chromium battery,lithium battery								
Structural parameters									
N.W Kg/G.W	133	193	256	297	400	472	573	717	735
Dimension(L*W*H)mm	655*405*817	655*405*941	821*432*1159		975*554*1286			1051*705*1646	