



RAYSHELLY S Series (Standard) Single Phase Solar GTI

1.0KW/1.5KW/2.2KW/3.0KW/3.6KW
4.4KW/5.0KW/6.0KW/8.0KW/10.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .

S Series Single Phase

rayshelly-power.com



SOLAR GRID TIED INVERTER

Technology Data

Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500W	2250W	3300W	4500W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	450	450	500	500	500	500	500	500
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~450	100~450	100~450	100~450	100~450	100~450	100~450	100~450
Max. input current (A)		13A				13A/13A		
Max.input short circuit per MPPT		13A				17A/17A		
Number of MPP trackers			1				2	
Strings per MPP tracker			1				1	
AC Side / Output Parameters								
Nominal output power (W)	1000	1500	2200	3000	3600	4000	5000	6000
Maximum output power (W)	1100	1650	2420	3300	3960	4400	5500	6600
Nominal output voltage/range (V)								
AC grid frequency/range (Hz)								
Maximum output current (A)	6	8	12	16	16	21	23	26
AC connection (with PE)								
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power factor								
Efficiency								
Maximum conversion efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	97.0%	97.0%	97.1%	97.2%	97.3%	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection								
DC reverse-polarity protection				yes				
Anti-islanding / Overvoltage protection				yes				
Short circuit protection				yes				
Leakage current protection				yes				
Grid monitoring / Ground fault monitoring				yes				
DC/AC side SPD(thermally protected)				yes				
General Parameters								
Dimension (L/W/H)(mm)			370/277/115				434/340/115	
Weight (kg)			7				8	
Embedded DC Switch				Optional				
Night power consumption (W)				< 0.2				
Isolation type				Transformerless				
Protection degree				IP65 according to IEC60529				
Operation temperature (°C)				-25 ~ +60				
Cooling concept				Smart Cooling				
Operating Altitude (m)				<2000m without power derating				
Acoustic noise level (dB)				< 25				
Display				Graphic LCD				
Communication Interface				Standard WIFI; RS485 (optional)				
Warranty				Standard 5 years; 7/10 years optional				
Certificates and Approvals								
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2								

SOLAR GRID TIED INVERTER

Technology Data

Model No	S6000TL(Pro)	S8000TL	S10000TL
DC Side / Input Parameters			
Max DC power (W)	9000W	12000W	15000W
Max DC voltage (Vdc)		550Vd.c.	
Min System start/Shut down voltage (Vdc)		75/100	
MPPT voltage range(Vdc)		100~500Vd.c.	
Max. input current (A)		28A/18A	
Max. input short current per MPPT (A)		40A/25A	
Number of MPPT trackers		2	
Strings per MPP tracker		2/1	
AC Side / Output Parameters			
Nominal output power (W)	6000	8000	10000
Maximum output power (W)	6600	8800	10500
Nominal output voltage/range (V)		208,220,230,240/140~310	
AC grid frequency/range (Hz)		50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz	
Maximum output current (A)	28	38.5	45.6
AC connection (with PE)		Single phase	
Current distortion(THDi)		<2.5%	
Power factor		~1%(Adjustable from 0.8 leading to 0.8 lagging)	
Efficiency			
Maximum conversion efficiency		98.1%	
European efficiency		97.5%	
MPPT efficiency		99.9%	
Safety and Protection			
DC reverse-polarity protection		yes	
Anti-islanding / Overvoltage protection		yes	
Short circuit protection		yes	
Leakage current protection		yes	
Grid monitoring / Ground fault monitoring		yes	
DC/AC side SPD(thermally protected)		yes	
General Parameters			
Dimension (L/W/H)(mm)		468/374/127	
Weight (kg)		11	
Embedded DC Switch		Optional	
Night power consumption (W)		< 0.2	
Isolation type		Transformerless	
Protection degree		IP65 according to IEC60529	
Operation temperature (°C)		-25 ~ +60	
Cooling concept		Smart Cooling	
Operatiing Altitude (m)		<2000m without power derating	
Acoustic noise level (dB)		< 25	
Display		Graphic LCD	
Communication Interface		Standard WIFI; RS485 (optional)	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			



RAYSHELY S Series (Plus) Single Phase Solar GTI

1.0KW/1.5KW/2.2KW/3.0KW
3.6KW/4.4KW/5.0KW/6.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .

S Series Single Phase

rayshely-power.com



SOLAR GRID TIED INVERTER

Technology Data

Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500W	2250W	3300W	4500W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	550	550	550	550	550	550	550	550
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~500	100~500	100~500	100~500	100~500	100~500	100~500	100~500
Max. input current (A)	18A					22A		
Max.input short circuit per MPPT	25A					30A		
Number of MPP trackers	1							
Strings per MPP tracker	1							
AC Side / Output Parameters								
Nominal output power (W)	1000	1500	2200	3000	3600	4000	5000	6000
Maximum output power (W)	1100	1650	2420	3300	3960	4400	5500	6600
Nominal output voltage/range (V)	208,220,230,240/180~270							
AC grid frequency/range (Hz)	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz							
Maximum output current (A)	6	8	12	16	16	21	23	28
AC connection (with PE)	Single phase							
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)							
Efficiency								
Maximum conversion efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	97.0%	97.0%	97.1%	97.2%	97.3%	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection								
DC reverse-polarity protection	yes							
Anti-islanding / Overvoltage protection	yes							
Short circuit protection	yes							
Leakage current protection	yes							
Grid monitoring / Ground fault monitoring	yes							
DC/AC side SPD(thermally protected)	yes							
General Parameters								
Dimension (L/W/H)(mm)	300/294/104					370/318.5/105.5		
Weight (kg)	5					7		
Embedded DC Switch	Optional							
Night power consumption (W)	< 0.2							
Isolation type	Transformerless							
Protection degree	IP65 according to IEC60529							
Operation temperature (°C)	-25 ~ +60							
Cooling concept	Smart Cooling							
Operatiing Altitude (m)	<2000m without power derating							
Acoustic noise level (dB)	< 25							
Display	Graphic LCD							
Communication Interface	Standard WIFI; RS485 (optional)							
Warranty	Standard 5 years; 7/10 years optional							
Certificates and Approvals								



RAYSHELLY TP Series Three Phase Solar GTI

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW/15.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .



TP Series Three Phase



THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TP4KTL	TP5KTL	TP6KTL	TP8KTL	TP10KTL	TP12KTL	TP15KTL
Input (DC)							
Max DC power (W)	5500W	6500W	7500W	9500W	11500W	18000W	22500W
Max DC voltage (Vdc)				1000Vd.c.			
Min working voltage (Vdc)				160Vd.c.			
MPPT voltage range (Vdc)				160...850Vd.c.			
Max input current / per string (A)				18A/18A			
Max.input short circuit per MPPT				25A/25A			
Number of MPP trackers				2			
Strings per MPP tracker				1			
Output (AC)							
AC nominal power (W)	4000	5000	6000	8000	10000	12000	15000
Max AC apparent power (VA)	5000	6000	7000	8800	11000	13200	16500
Max output current (A)	8	10	12	15	17	20	23
Nominal AC output				50/60 Hz; 400 Vac			
AC output range				45/55 Hz ; 280 ~ 490 Vac (Adj)			
Power factor				0.8leading...0.8laging			
Harmonics				< 5%			
Grid type				3 W/N/PE			
Efficiency							
Max efficiency	98.0%	98.2%	98.2%	98.3%	98.4%	98.4%	98.4%
Euro efficiency	97.5%	97.7%	97.7%	97.8%	97.9%	97.9%	98.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection							
DC reverse-polarity protection				yes			
DC breaker				yes			
DC/AC SPD				yes			
Leakage current protection				yes			
Insulation Impedance Detection				yes			
Residual Current protection				yes			
General Parameters							
Dimension (W/H/D)(mm)				480*476*157			
Weight (kg)				16			
Operating temperature range °C				-25 ~ +60			
Degree of protection				IP65			
Cooling concept				Smart Cooling			
Topology				Transformerless			
Display				LCD			
Humidity				0-95%, no condensation			
Communication				RS485/WiFi/GPRS			
Warranty				Standard 5 years; 7/10 years optional			
Certificates and Approvals							
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116							



RAYSHELLY TP Series Three Phase Solar GTI

17.0KW/20.0KW/25.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .



TP Series Three Phase



THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TP17KTL	TP20KTL	TP25KTL
Input (DC)			
Max DC power (W)	25500W	30000W	30000W
Max DC voltage (Vdc)		1000Vd.c.	
Min working voltage (Vdc)		250Vd.c.	
MPPT voltage range (Vdc)		200...850Vd.c.	
Max input current / per string (A)	26A/26A		36A/26A
Max.input short circuit MPPT	34A/34A		46A/34A
Number of MPP trackers		2	
Strings per MPP tracker		2	
Output (AC)			
AC nominal power (W)	17000	20000	25000
Max AC apparent power (VA)	18700	22000	27500
Max output current (A)	25	30	36
Nominal AC output		50/60 Hz; 400 Vac	
AC output range		45/55 Hz ; 280 ~ 490 Vac (Adj)	
Power factor		0.8leading...0.8lagging	
Harmonics		< 1.5%	
Grid type		3 W/N/PE	
Efficiency			
Max efficiency	98.5%	98.5%	98.5%
Euro efficiency	98.1%	98.1%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%
Safety and Protection			
DC reverse-polarity protection		yes	
DC breaker		yes	
DC/AC SPD		yes	
Leakage current protection		yes	
Insulation Impedance Detection		yes	
Residual Current protection		yes	
General Parameters			
Dimension (W/H/D)(mm)		520*510*160	
Weight (kg)		23	
Operating temperature range °C		-25 ~ +60	
Degree of protection		IP65	
		Smart Cooling	
Topology		Transformerless	
Display		LCD	
Humidity		0-95%, no condensation	
Communication		RS485/WiFi/GPRS	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116			



RAYSHELY TPL Series (Low Voltage) Three Phase Solar GTI

10.0KW/12.0KW/15.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .



TPL Series Advantage

Designed with low voltage power input small commercial PV applications. For South American market of grid voltage 208V, 220V and 240V. The system configuration can be simplified instead of installation of an expensive transformer which adversely affects the system's conversion efficiency.

rayshely-power.com

THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

Model No	TPL10KTL	TPL12KTL	TPL15KTL
Input (DC)			
Max DC power (W)	16900W	20800W	22100W
Max DC voltage (Vdc)		600Vd.c.	
Min working voltage (Vdc)		100Vd.c.	
MPPT voltage range (Vdc)		100...550Vd.c.	
Max input current / per string (A)	28A/28A	28A/36A	28A/36A
Number of MPP trackers		2	
Strings per MPP tracker		2/2	
Output (AC)			
AC nominal power (W)	11000	14000	15000
Max AC apparent power (VA)	13000	16000	17000
Max output current (A)	32A	40A	43A
Rated AC Voltage / Range [V]		150 ~ 300	
Grid frequency / range [Hz]		50 / 60; ±5	
Adjustable Power Factor [cosφ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
Efficiency			
Max efficiency	98.3%	98.4%	98.5%
Euro efficiency	98.0%	98.1%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%
Safety and Protection			
DC reverse-polarity protection		yes	
DC breaker		yes	
DC/AC SPD		yes	
Leakage current protection		yes	
Insulation Impedance Detection		yes	
Residual Current protection		yes	
General Parameters			
Dimension (W/H/D)(mm)		520/520/160	
Weight (kg)		20	
Operating temperature range °C		-25 ~ +60	
Degree of protection		IP65	
Cooling concept		Smart Cooling	
Topology		Transformerless	
Display		LCD	
Humidity		0-95%, no condensation	
Communication		RS485/WiFi/GPRS	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CQC. VDE-AR-N4105. VDE0126-1-1. AS4777. IEC61727. IEC62116			



RAYSHELY Low Voltage Single Phase Hybrid Inverter

3.0KW/4.0KW/5.0KW/6.0KW/8.0KW/10.0KW



Big lcd display



Excellent off grid ability



Power export limit



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using out advanced monitoring platform .



EPL Series Single Phase



SINGLE PHASE HYBRID INVERTER

Technology Data

EPL Series EPL8KTL (3.0KW / 4.0KW / 5.0KW / 6.0KW / 8.0KW / 10.0KW)

Model	EPL3000TL	EPL4000TL	EPL5000TL	EPL6000TL	EPL8000TL	EPL10KTL
Input(DC)						
Max DC power	4500w	6000w	7500w	9000w	12000w	14000w
Max DC Voltage	500V					
MPPT voltage range	100-450Vd.c					
Rated PV Input Voltage	360V (100-500V)					
Full Load DC Voltage Range	200-425V					
PV Input Current	18A/18A				27A/27A	
Max.PV Isc	25/25				50/50	
Number of MPP trackers	2				2	
Strings per MPP tracker	1				2	
BATTERY INPUT						
Battery type	Lead-acid or Li-ion					
Battery voltage range	40-60V					
Max charge current	80A	100A	120A	150A	200A	210A
Max discharge current	80A	100A	120A	150A	200A	210A
External Temperature Sensor	Yes					
Charging Curve	3 Stages/Equalization					
Charging Strategie for Li-Ion Batteries	Self-adaption to BMS					
OUTPUT(AC)						
Rated AC Output Active Power	3000W	4000W	5000W	6000W	8000W	10000W
Maximun AC Output Active Power	3300W	4400W	5500W	6600W	8800W	10500W
AC Output Rated Current	13.1A	17.4A	21.8A	26.2A	34.8A	43.5A
Max AC Output Current	15A	20A	24.2A	28.8A	38.5A	45.6A
Max Continuous AC Passthrough	35A				65A	
Peak Power(off grid)	2 time of rated power, 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Power Factor	1					
Output Frequency and Voltage	50/60HZ; L/N/PE 220/230Vac					
Grid Type	single phase					
Total Harmonic Distortion(THD)	<0.5%In					
EFFICIENCY						
Max Efficiency	97.60%				97.80%	
Euro Efficiency	96.50%				96.60%	
MPPT Efficiency	99.90%					
PROTECTION						
Interrated	Anti-islanding protection, PV String Input Reverse Polarity Protection					
	Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection					
	Output Shorted Protection, Surge Protection					
Over Voltage Category	DC Type II/AC Type III					
General Data						
Operation Temperature Range	-40-60 C , >45 C Derating					
Cooling	Smart Cooling					
Noise	≤30dB					
Communication with BMS	RS485; CAN					
Weight	25KG					
Dimension(W/H/D)(mm)	520*420*180					
Protection Degree	IP65					
Installation Style	Wall-mounted					
Warranty	Standard 5 years; 7/10 years optional					



RAYSHELY High Voltage Three Phase Hybrid Inverter

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW



Big lcd display



Three phase unbalanced output



Power export limit



Wifi/GPRS/Lan communication optional



High Output

Working in 45 degrees high temperature
without power degradation



Accuracy

Anti-backflow control accuracy <20W



SML/DRED Function

The latest SML/DRED functions are
standard for the entire series

ANYTIME,ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .



EPH Series Three Phase



THREE PHASE HYBRID INVERTER

Technology Data

EPH Series EPH10KTL (4KW / 5KW / 6KW / 8KW / 10KW / 12KW)

Model No	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
Input (DC)						
Max DC power	6000W	7500W	9000W	12000W	15000W	15000W
Max DC voltage				1000Vd.c.		
MPPT voltage range				200...850Vd.c.		
Max input current/per string				13A/13A		
Max.input short circuit per MPPT				18A/18A		
Number of MPP trackers				2		
Strings per MPP tracker				1		
Battery Input						
Battery Type				Li-Ion		
Battery voltage range				130-700V		
Maximum charge/discharge current				25/25A		
Charge strategy for Li-Ion Battery				Self-adaptation to BMS		
Output (AC)						
AC nominal power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max AC apparent power	5000VA	5500VA	7000VA	8800VA	11000VA	13200VA
Max output current	8A	10A	12A	15A	17A	20A
Nominal AC output				50/60Hz; 400/350		
AC output range				45/55Hz;280~490Vac(Adj)		
Power factor				0.8leading...0.8laging		
Harmonics factor				<3%		
Grid type				3W/N/PE		
Three-phase unbalance output	0~100%	0~100%	0~100%	0~100%	0~100%	0~80%
AC Output (Back-up)						
Max AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	10000VA
Norminal Output Voltage				400/380V		
Norminal Output Frequency				50/60HZ		
Output THDV (@Linear Load)				<3%		
Efficiency						
Maximum conversion efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Max battery to AC Efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection						
DC reverse-polarity protection				yes		
DC breaker				yes		
DC/AC SPD				yes		
Leakage current protection				yes		
Insulation Impedance Detection				yes		
Residual Current protection				yes		
Output short circuit protection				yes		
Battery reverse connection protection				yes		
General Parameters						
Dimension (W/H/D)				516*427*183.5mm		
Weight				26 kg		
Operating temperature range °C				-25°C...+60 °C		
Degree of protection				IP65		
Cooling concept				Natural convection		
Topology				Transformerless		
Display				LCD		
Humidity				0-95%,no condensation		
Communication				Standard WiFi;GPRS/LAN(optional)		
Warranty				Standard 5 years; 7/10 years optional		
BMS communication				CAN/RS485		
Meter communication				RS485		
Certificates and Approvals						
CQC, VDE-AR-N4105,IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						

OFF-GRID

Solar inverter



Low no-load loss

Lower than high-frequency machines with the same power rate



Pure sine wave output

Suitable for different loads



Multiple parameters can be adjusted

Meet the diverse needs of users



Safer installation

Battery Reverse Connection Protection with Fuse Switch



High Precision of Output Voltage

Take Care of Your Appliances



More Features

- Slim body, Convenient installation And Transportation
- Optional solar controller with MPPT
- External WiFi /BMS function for lithium battery

Application



Ship



House



Camera



Street light



Water pump



Carport

inverter **SERIES** 1.6kW / 3kW

MODEL	GD2012EMH	GD3024EMH
INPUT VOLTAGE		
AC Input	220VAC(standard) / 110VAC(customised)	
Input Voltage Range	90-280VAC+3V(Normal Mode)	170-280VAC±3V(UPS Mode)
Input Frequency	50/60Hz±5%	
OUTPUT		
Rated Power	1600W	3000W
Output Voltage	The output voltage under mains power is the same as the input voltage	
Output Frequency	The output frequency under mains power is the same as the input frequency	
Output Voltage	220VAC+10%(110VAC+10%)	
Output Frequency	50HZ or 60HZ±1%	
Output Wave	Pure Sine Wave	
BATTERY		
Battery Type	External lead-acid battery,Gel battery, water battery or Lithium battery	
Rated Voltage	12VDC	14.1VDC
Constant charging Voltage (Adjustable)	24VDC	28.2VDC
CHAGER		
Maximum Photovoltaic Array Power	2000W	3000W
(MPPT)PVInput Voltage Range	40V-450VDC	40V-500VDC
MAX PVInput Voltage	400VDC	500VDC
Best VMP Working Range	300-400VDC	300-400VDC
MAX PV Charge Current	60A	100A
MAX AC Charge Current	60A	60A
Transfer Time	s10ms(UPS模式)/s20ms(INV模式)	
Overload Ability	Battery Mode: 21s@105%~150%Load	11s@150%~200% Load 400ms@>200% Load
PROTECT		
AC	Input overcurrent without fuse switch protection	
Inversion	overload, short circuit , low voltage, battery reverse connection protection (fuse)	
DISPLAY		
Display Screen	Color segment code screen	
Flipping Pages	Can display operating mode/load/input/output	
LED	LED lights display mains power, charging status, inverter status, and fault status	
OTHER		
Operating Temperature	-10°C~50°C	
Storage Temperature	-10°C~60°C	
Sound On	The alarm sound of the buzzer varies depending on the fault code	
Operating Environment Humidity	20%-90% Non Condensing	
Noise	≤ 50dB	
L*W*H(mm)	345*254*105mm	

OFF-GRID

Solar inverter



Lithium Battery Auto-restart

More Convenient for Lithium Battery Charging



Intelligent Power Supply Mode,

intelligent Distribution of solar Panel/Mains/
Battery Power Shares



Utility /Pv charging Voltage Adjustable

Match Different Battery Charging Requirements



PF10, High Efficiency

Lower Consumption,Energy Conservation
/Environmental Protection/Electricity saving/Cost saving



Pure sine wave output

Suitable for different loads



● 3-6K

● 8-11K

More Features

- Battery Reverse Connection Protection with Fuse switch, Safer installation
- Support Working without Battery: Reduce solar system Cost
- BMS function for lithium battery
- Communication Option: External wifi supervise at Any Time
- Convenient installation And Transportation

inverter

SERIES

3kW / 3.6kW/ 5.5kW/ 6.2kW/ 11kW

MODEL	GD3024JMH	GD3624JMH	GD5548JMH	GD6248JMH	GD11048MH
INPUT VOLTAGE					
Input Formation	L+N+PE				
AC Input	220/230/240VAC				
Input Voltage Range	90~280VAC+3V(Normal Mode) 170~280VAC±3V(UPS Mode)				
Frequency	50/60Hz(Adaptive)				
OUTPUT					
Rated Power	3000W	3600W	5500W	6200W	11000W
Output Voltage	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	7200VA	10000VA	12400VA	22000VA
Overload Ability	Battery Mode:	21s@105%~150% Load	11s@150%~200% Load	400ms@>200% Load	
Rated Voltage	24VDC	24VDC	48VDC	48VDC	48VDC
BATTERY					
Constant Charging Voltage(Adjustable)	28VDC	28VDC	56.4VDC	56.4VDC	56.4VDC
Float Charging Voltage(Adjustable)	27VDC	27VDC	54VDC	54VDC	54VDC
PV Charging Method	MPPT				MPPT*2
CHAGER					
Max PV Input	4200W	4200W	5500W	6200W	2x5500W
MPPT Tracking Range	60~500VDC	60~500VDC	60~500VDC	60~500VDC	90~500VDC
Best VMP Working Range	300~400VDC	300~400VDC	300~400VDC	300~400VDC	300~400VDC
MAX PV Input Voitage	500VDC	500VDC	500VDC	500VDC	500VDC
MAX PV Input Current	18A				18A/18A
MAX PV Charge Current	100A	100A	100A	100A	150A
MAX AC Charge Current	60A	80A	60A	80A	150A
MAX Charge Current	100A	120A	100A	120A	150A
OTHER					
LCD Display	Can display operating mode/load/input/output				
RS232 interface	5PIN/Pitch2.54mm, Baud Rate 2400				
Expansion Slot communication interface	Lithium Battery BMs Communication Card,WIFI 2x5PIN/Pitch2.54mm				
Parallel interface	Support Parallel				
Operating Temperature	-10°C~50°C				
Storage Temperature	-15°C~60°C				
Ork Altitude	No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer to IEC62040				
Operating Environment Humidity	20%~95% Non Condensing				
Noise	s50db				
L*W*H(mm)	495*312*146mm				570*500*148mm
Standards and Certifications	EN-IEC 60335-1,EN-IEC 60335-2-29,IEC 62109-1				

OFF-GRID

Solar inverter *for parallel*



Parallel Function Up to Max 9 Units
Enlarge More Loads



Lithium Battery Auto-restart
More Convenient for Lithium Battery Charging



Intelligent Power Supply Mode,
intelligent Distribution of solar Panel/Mains/
Battery Power Shares



Utility /Pv charging Voltage Adjustable
Match Different Battery Charging Requirements



PF10, High Efficiency
Lower Consumption,Energy Conservation
/Environmental Protection/Electricity saving/Cost saving



● **3-6K**

● **8-11K**

More Features

- Battery Reverse Connection Protection with Fuse switch, Safer installation
- Support Working without Battery: Reduce solar system Cost
- BMS function for lithium battery
- Communication Option: External wifi supervise at Any Time
- Convenient installation And Transportation

inverter

SERIES

5.5KW/6.2KW/8.6KW/11KW

MODEL	GD5548JMHB	GD6248JMHB	GD8648MHB	GD11048MHB
INPUT VOLTAGE				
Input Formation	L+N+PE			
AC Input	220/230/240VAC			
Input Voltage Range	90~280VAC+3V(Normal Mode) 170~280VAC±3V(UPS Mode)			
Frequency	50/60Hz(Adaptive)			
OUTPUT				
Rated Power	5500W	6200W	8600W	11000W
Output Voltage	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	11000VA	12400VA	17200VA	22000W
Overload Ability	Battery Mode: 21s@105%-150% Load	11s@150%-200% Load	400ms@>200% Load	
GRID CONNECTED OPERATION				
Output Voltage	220/230/240VAC			
Grid Voltage Range	195-253VA			
Grid Frequency Range	49-51+1Hz/59-61+1Hz			
Output Current	23.9A	26.9A	34.7A	47.8A
Power Factor Range	>0.99			
(DC/AC)Conversion Efficiency	98%			
BATTERY				
Rated Voltage	48VDC			
Constant charging Voltage(Adjustable)	56.4VDC			
Float charging Voltage (Adjustable)	54VDC			
CHAGER				
PV Charging Method	MPPT	MPPT	MPPT*2	MPPT*2
Max PVInput	5500W	6200W	2x5500W	2x5500W
MPPT Tracking Range	60~500VDC	60~500VDC	90~500VDC	90~500VDC
Best VMP Working Range	300~400VDC	300~400VDC	300~400VDC	300~400VDC
MAX PV Input Voltage	500VDC	500VDC	500VDC	500VDC
MAX PV Input Current	18A	18A	18A/18A	18A/18A
MAXPV Charge current	100A	100A	150A	150A
MAX AC Charge current	60A	80A	120A	150A
MAX Charge Current	100A	120A	150A	150A
OTHER				
LCD Display	Can display operating mode/load/input/output			
RS232 interface	5PIN/Pitch2.54mm, Baud Rate 2400			
Expansion Slot communication interface	Lithium Battery BMs Communication Card,WIFI 2x5PIN/Pitch2.54mm			
Parallel interface	Support Parallel			
Operating Temperature	-10°C~-50°C			
Storage Temperature	-15°C~60°C			
Ork Altitude	No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer to IEC62040			
Operating Environment Humidity	20%~95% Non Condensing			
Noise	s50db			
L*W*H(mm)	495*312*146mm		570*500*148mm	
Standards and Certifications	EN-IEC 60335-1,EN-IEC 60335-2-29,IEC 62109-1			