

Product Parameters >

Demesilo

Residential Solar inverter

Your Energy, Our Innovation.



www.demesilo.com



More Product Parameters

Demesilo (Changxing) New Energy Technology Co.,Ltd.

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Household Photovoltaic
Solar Solutions Supplier

inverter **SERIES**

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



inverter **SERIES** 1.6kW / 3kW

Demesilo

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
CHARGER		
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	

More Features

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

Application



Ship



House



Camera



Street light



Water pump



Carport

Demesilo


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inverter **SERIES**


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

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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				

inverter **SERIES**

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

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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			

inverter **SERIES**

HV Three Phase Hybrid inverter

Big lcd display
Fully display the operation information

Power export limit
Prevent excessive current or voltage output
avoid overload and short circuit

Three phase unbalanced output
To reduce the load of a harmonic wave filter, etc.,
by decreasing harmonic wave components

Wifi/GPRS/Lan communication optional
Choose the appropriate communication method freely



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

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inverter **SERIES** 6kW / 7.5kW / 9kW / 12kW / 15kW

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...0.8lagging		
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
Normal Output Voltage				400/380V		
Normal 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						