

Grid-tie Inverters

Smart Energy Management

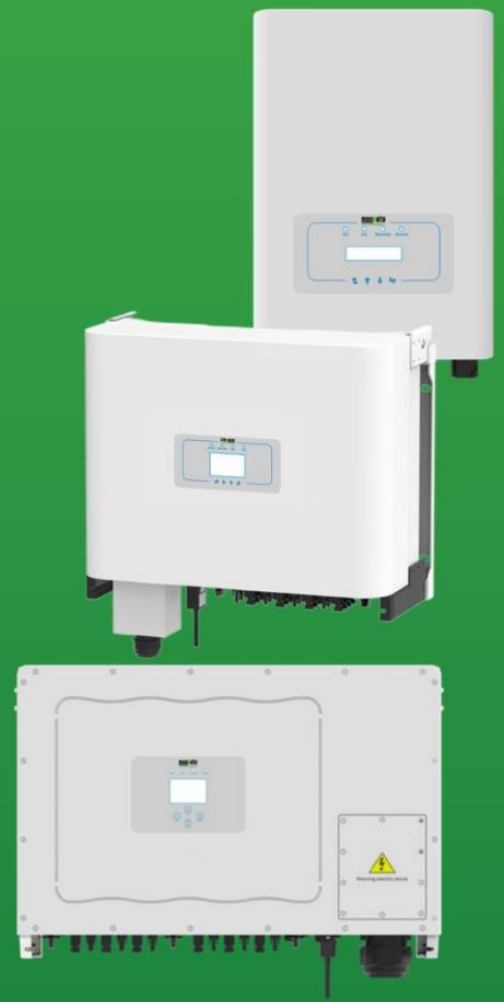
Safe | Reliable | User Friendly

Why use a Grid-tie Inverter?

The Magneto Grid-tie inverter is used in commercial and industrial applications to supplement Grid power with Solar generation. The main function of the Inverter is to convert solar power - generated as DC (Direct current) - into AC (Alternating current) with equal Grid voltage and frequency. This results in saving money by using less power from your local power provider.

Energy independence for peace of mind

In the Developing World it has become a necessity to compensate for weak, intermittent and lack of grid electricity. Magneto Renewable Energy (MRE) is dedicated to providing the latest complete Photovoltaic power system solutions, including residential and commercial power plant solutions. MRE has a complete range of Photovoltaic equipment from Generation to Hybrid Energy management and Storage.



5 YEAR WARRANTY

Models: 25 kW 3 Phase
50 kW 3 Phase
110 kW 3 Phase



Multiple MPP trackers



Efficiency up to 98.9%



High DC/AC ratio up to 1.5 times for more yields



String intelligent monitoring



Wide output voltage range



Response speed within 0.5 s

Remote Monitoring



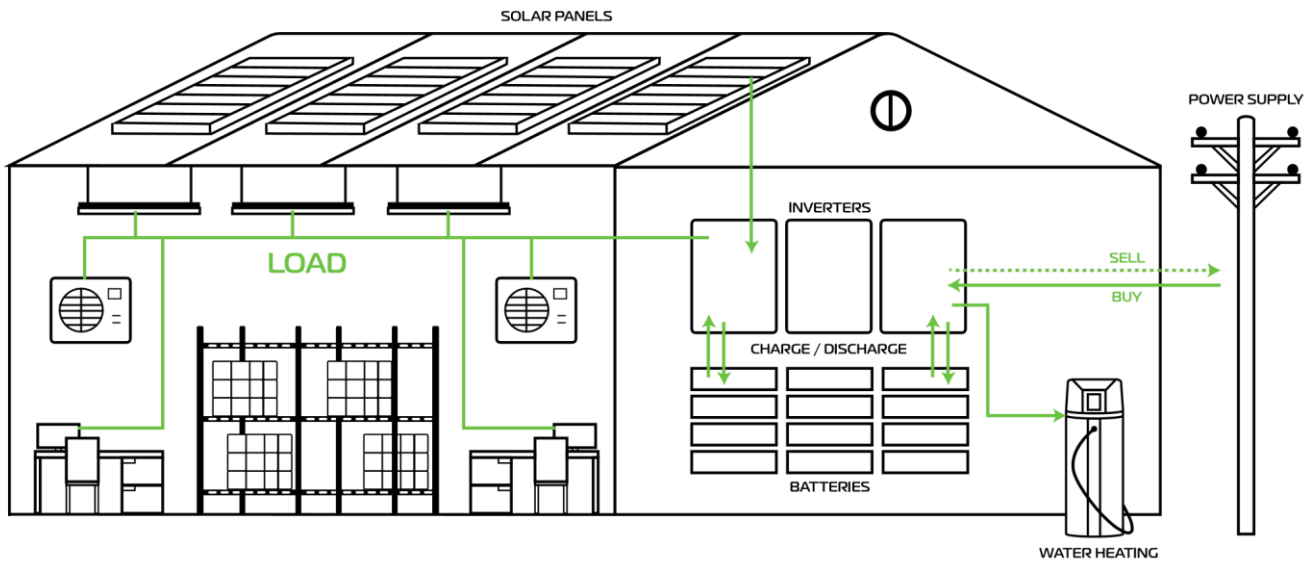
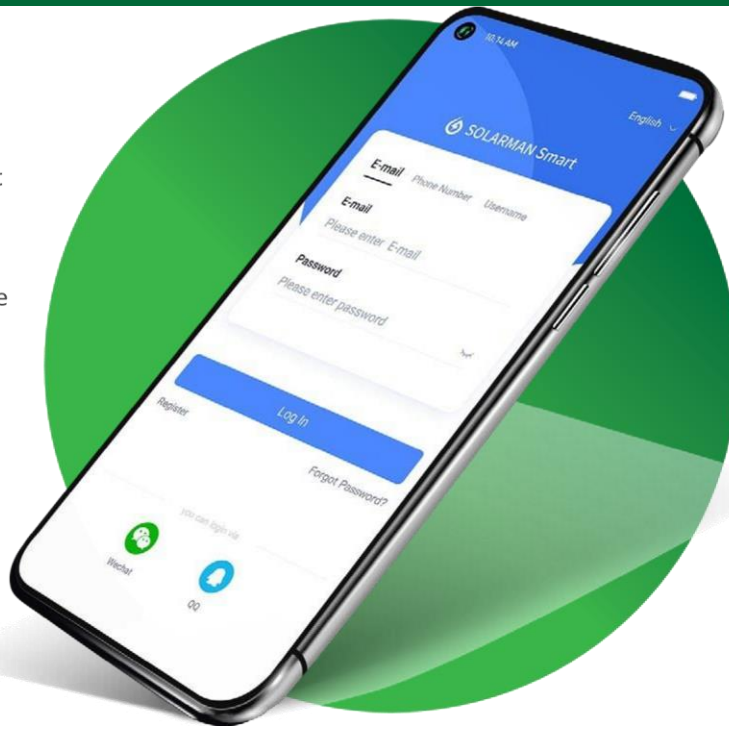
Smart

The Magneto Grid-tie Inverter makes use of the Solarman Smart App for comprehensive online PV monitoring. Intelligent energy management designed with the basic

features for a full-on visual experience, excellent data display and all-round monitoring achieves the goal of convenient operation.

The Magneto Renewable Energy call centre will monitor your PV Plant 24/7. A detailed monthly report will keep you up to date with system performance.

First 3 months free.



Hybrid Inverter Energy Management

Model:		25 K-G04	50 K-G03	110 K-G03	
Input	Max. DC Input Power (kW)	32,5	65	150	
	Max. DC Input Voltage (V)	1000			
	Start-up DC Input Voltage (V)	250			
	MPPT Operating Range (V)	200 - 850			
	Max. DC Input Current (A)	32 + 32	40+40+40+40	40+40+40+40+40+40	
	Max. Short Circuit Current (A)	48 + 48	60+60+60+60	60+60+60+60+60+60	
	Number of MPPT / Strings per MPPT	2/2	4/3	6/4	
	Rated Output Power (kW)	25	50	110	
	Max. Active Power (kW)	27.5	55	121	
	Rated AC Grid Voltage (V)	220/380, 230/400			
	AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)			
	Rated Grid Frequency (Hz)	50/60 (Optional)			
	Operating Phase	Three Phase			
	Output	Rated AC Grid Output Current (A)	36.2	72.4	159.4
Max. AC Output Current (A)		39.8	79.7	175.4	
Output Power Factor		0.8 leading to 0.8 lagging		>0.99	
Grid Current THD		<3%			
DC Injection Current (mA)		<0.5%			
Grid Frequency Range		47~52 or 57~62 (Optional)			
Efficiency		Max. Efficiency	98.7%		
		Max. AC Output Power (W)	98%		
		Peak Power (off grid)	>99%		
		DC Reverse-Polarity Protection	Yes		
	AC Short Circuit Protection	Yes			
Protection	AC Output Overcurrent Protection	Yes			

General Data	Output Overvoltage Protection	Yes		
	Insulation Resistance Protection	Yes		
	Ground Fault Monitoring	Yes		
	Anti-islanding Protection	Yes		
	Temperature Protection	Yes		
	Integrated DC Switch	Yes		
	Remote software upload	Yes		
	Remote change of operating parameters	Yes		
	Surge protection	DC Type II / AC Type II		
	Size (mm)	330W×508H×206D	647.5W×537H×303.5D	838W×568H×323D
	Weight (kg)	20.8	44.5	73.7
	Topology	Transformerless		
	Internal Consumption	<1W (Night)		
	Running Temperature	-25~65°C		

Features	Ingress Protection	IP65		
	Noise Emission (Typical)	<45 dB		<55 dB
	Cooling Concept	Smart cooling		
	Max. Operating Altitude Without Derating	2000m		
	Designed Lifetime	>20 years		
	Grid Connection Standard	EN50549-1,VDE 0126-1-1	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683	
	Operating Surroundings Humidity	0-100%		
	Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12	
	DC Connection	MC-4 mateable		
	AC Connection	IP65 rated plug		
	Display	LCD		
	Interface	RS485/RS232/Wifi/LAN		

25 kW INVERTER



50 kW INVERTER



110 kW INVERTER

