

Grid-tie Inverters

Smart Energy Management

- IMI301 - 25 kW 3 Phase
- IMI302 - 50 kW 3 Phase
- IMI303 - 110 kW 3 Phase

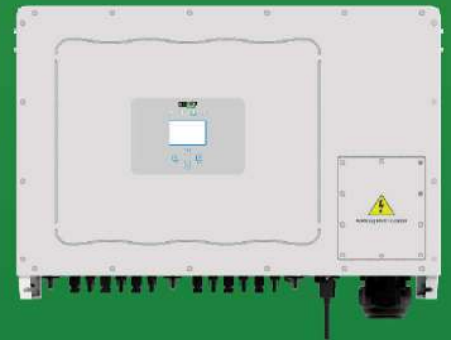
Why use a Grid-tie Inverter?

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

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.

Power For Peace Of Mind



5 YEAR WARRANTY



Multiple MPP trackers



Efficiency up to 98.9%



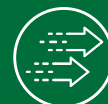
High DC/AC ratio up to 1.5 times for more yields



String intelligent monitoring



Wide output voltage range



Response speed within 0.5 s

Remote Monitoring

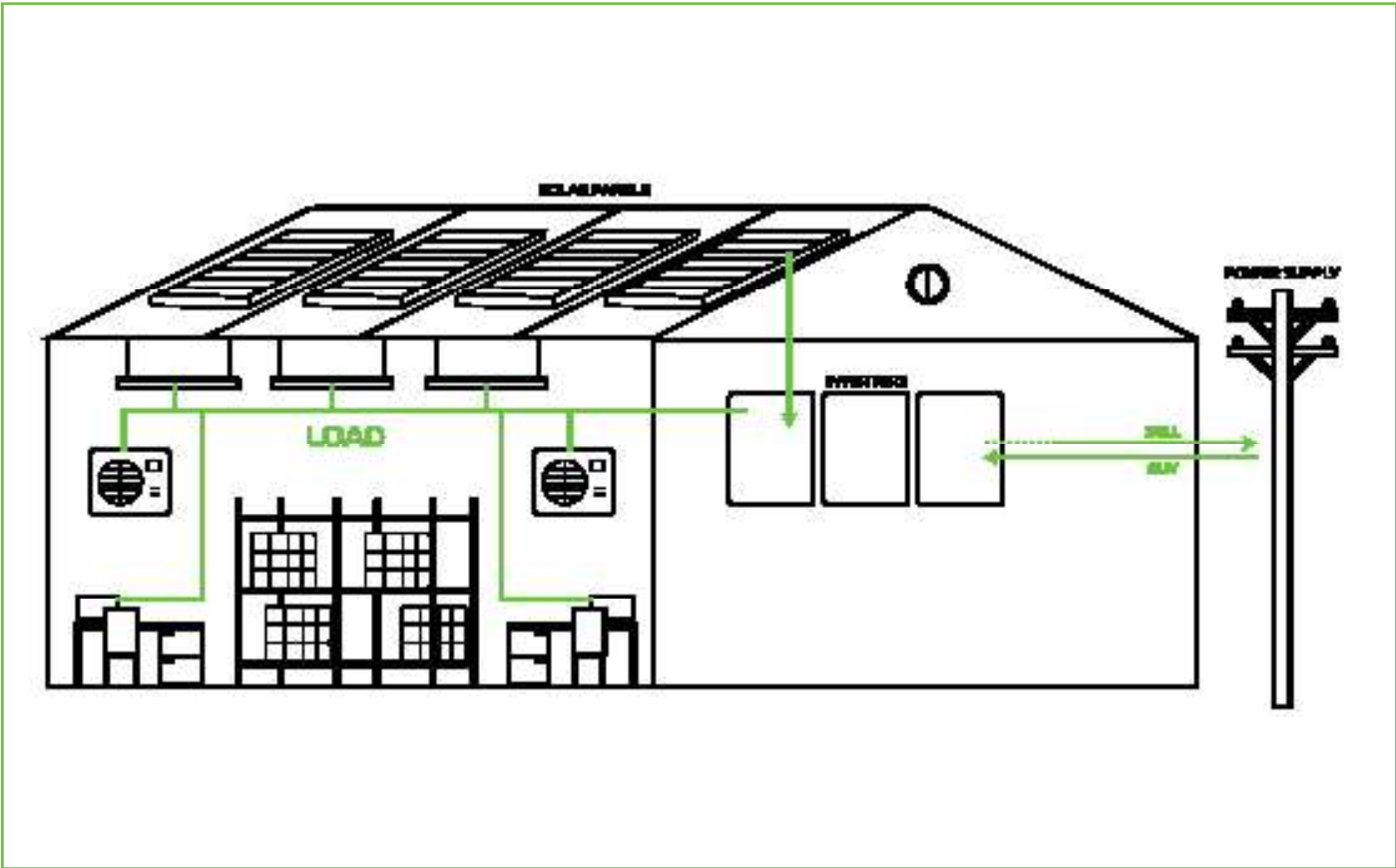


The Magneto Grid-tie Inverter makes use of the Solarman Smart App for comprehensive online PV monitoring. Intelligent energy management designed with the basic

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.



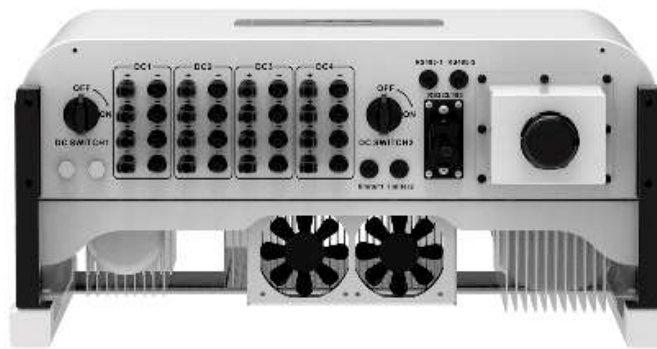
Grid-Tie Energy Management

Model:		IMI301 - 25kW	IMI302 - 50kW	IMI303 - 110kW
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)	26+26	40+40+40+40	40+40+40+40+40+40
	Max. Short Circuit Current (A)	39 + 39	60+60+60+60	60+60+60+60+60+60
	Number of MPPT / Strings per MPPT	2/2	4/3	6/4
Output	Rated Output Power (kW)	25	50	110
	Max. Active Power (kW)	27,5	55	121
	Rated AC Grid Voltage (V)	3L/N/PE 220/380, 230/400V		
	Rated Grid Frequency (Hz)	50/60 (Optional)		
	Operating Phase	Three Phase		
	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		
	Grid Current THD	<3%		
	DC Injection Current (mA)	<0,5%		
Grid Frequency Range	47-52 or 57-62 (Optional)			
Efficiency	Max. Efficiency	98,7%		
	MPPT efficiency	>99%		
Protection	DC Reverse-Polarity Protection	Yes		
	AC Short Circuit Protection	Yes		
	AC Output Overcurrent Protection	Yes		
	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			
General Data	Size (mm)	330W×508H×206D	647,5W×537H×303,5D	838W×568H×323D
	Weight (kg)	20,8	44,5	81
	Topology	Transformerless		
	Internal Consumption	<1W (Night)		
	Running Temperature	-25 ~ 65C > 45C derating		
	Ingress Protection	IP65		
	Noise Emission (Typical)	<40 dB	<50 dB	<55 dB
	Cooling Concept	Smart cooling		
	Max. Operating Altitude Without Derating	2000m		
	Designed Lifetime	>20 years		
	Grid Connection Standard	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1 - NRS 097		
	Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-1, IEC61000-3-12			
Features	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



Contact our friendly and efficient team to discuss an energy solution that fits your lifestyle.

magneto
RENEWABLE ENERGY

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