

APOLLO G-4000

Grid Connected Inverter with Isolation Transformer Suitable for Thin Film PV Module

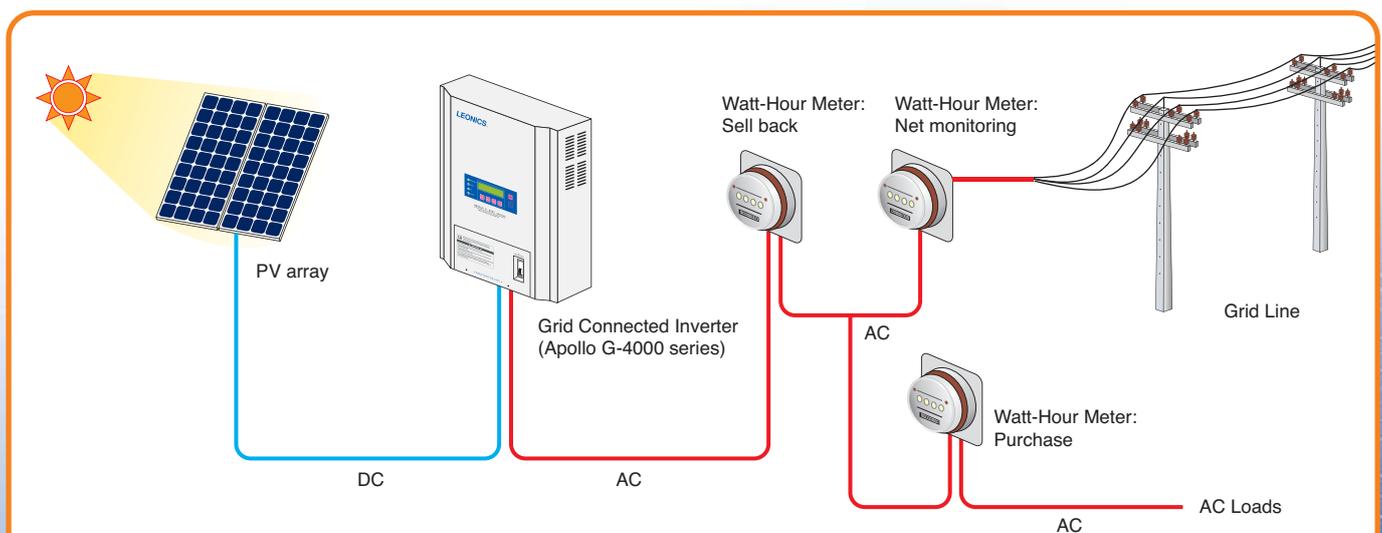


Wall mount case



Tower case

- Pure sine wave power output
- Peak efficiency > 96% (include isolation transformer)
- Low Harmonic Distortion (THDi) less than 4%
- Main and solar generator are galvanically isolated
- Built-in Maximum Power Point Tracking (MPPT)
- Microprocessor control
- Islanding protections during failure of utility grid power supply
- Automatic start and shutdown during over heating
- Advanced IGBT technology
- Fully automatic self-START in the morning and STOP in the evening
- Special design for using at high grid fluctuation area
- Operation with battery bank (option)
- Tested to comply with IEC 61727 and IEC 62116
- C-tick compliance for EMC
- ISO 9001 and ISO 14001 certified factory



The APOLLO G-4000 series inverter is high performance grid connected inverter that integrated with maximum power point tracking (MPPT) to extract maximum power generated from PV array, and also system protection during failure of utility grid power supply. The inverter converts DC power produced by PV array to AC power for supplying to loads and sell excess power back to utility grid. In the cloudy day or when extra power is needed, loads will consume power from grid line automatically. It is suitable for grid connected solar power system for residence, building, store or factory.

SPECIFICATIONS

MODEL		G-4150	G-4200	G-4250	G-4300	G-4350	G-4400	G-4500	
RATED POWER	PV input	1.7 kW _p	2.2 kW _p	2.8 kW _p	3.3 kW _p	3.9 kW _p	4.4 kW _p	5.5 kW _p	
	AC output	1.5 kW	2.0 kW	2.5 kW	3.0 kW	3.5 kW	4.0 kW	5.0 kW	
SYSTEM	Controller	intelligent with microcomputer controlled							
	Technology	FET technology			IGBT technology				
DC INPUT	MPPT tracking range	200 - 420 V			300 - 450 V				
	Maximum PV voltage (V _{oc})	450 V			550 V				
GRID LINE	Voltage and phase	+10%, -15% for 220 Vac and 230 Vac (single phase) according to standards of IEC 61727 and IEC 62116 200 - 253 Vac for 240 Vac (single phase) according to standards of AS 4777 200 - 240 Vac for 220 Vac (single phase) according to standards of IEC 61727 and IEC 62116 (for PEA grid line) 209 - 240 Vac for 230 Vac (single phase) according to standards of IEC 61727 and IEC 62116 (for MEA grid line)							
	Frequency	50 / 60 Hz ± 0.5 Hz for 220 Vac and 230 Vac 50 / 60 Hz ± 0.6 Hz for 240 Vac 48 - 51 Hz for 220 Vac and 230 Vac according to standards of IEC 61727 and IEC 62116 (for PEA and MEA grid line)							
AC OUTPUT	Power factor	more than 0.98							
	Total harmonic distortion	Total less than 4%, each less than 3%							
	Current limiting	110%							
ISOLATION	Galvanic isolation	yes							
EFFICIENCY	Peak efficiency	> 94.3%	> 94.5%	> 94.5%	> 94.5%	> 94.5%	≥ 95.4%	≥ 95.4%	
CONTROL		Automatic cooling fans / MPPT control / unity power factor control							
PROTECTION	Input / Output	Over voltage / under voltage (AC & DC), frequency (AC)							
	Islanding	Voltage and phase shift detection							
	Over heat	Auto shutdown and auto restart							
	Surge energy dissipation	280 Joules 10 / 1,000 microsec wave form							
INDICATOR	LED	Main, Operating, DC, Alarm							
	LCD display	DC / AC voltage, Current, Watt, Today kWh, Accumulated kWh, Calendar, Clock, Condition setting, Fault							
AUDIABLE ALARM	Multiple tone sound with reset for silence	Mains failure, inverter fault (Inhibitible)							
COMMUNICATION INTERFACE	DB-9 connector				RS-232 serial interface port				
	RS-485 Adaptor				RS-485 interface (option)				
ACOUSTIC NOISE	At 1 metre	less than 50 dBA							
ENVIRONMENT	Temperature	0 - 45°C							
	Humidity	0 - 95 % (non - condensing)							
DESIGN REGULATION	Tested according to	IEC 61727 and IEC 62116							
DIMENSION	W x H x D in cm.	40 x 52 x 19.5 (wall mount)			46 x 60 x 25.2 (wall mount)			50 x 63.5 x 48 (tower)	
WEIGHT in kg.	Approximate in kg.	29	38	38	58	58	90	90	

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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