

APOLLO G-300

GRID CONNECTED INVERTER

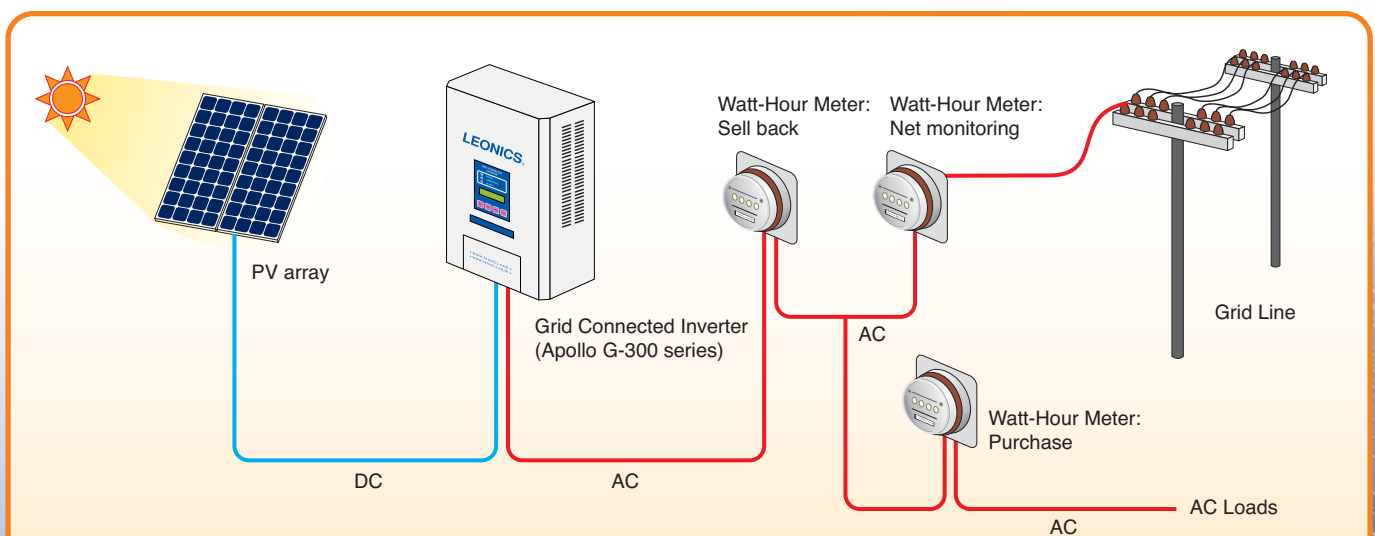


Wall mount case



Rack mount case

- Pure sine wave power output
- Peak efficiency > 91% (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
- Advanced IGBT Technology
- Islanding protections during failure of utility grid power supply
- 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
- AS 4777 and AS 3100 Certified
- C-tick compliance for EMC
- ISO 9001:2008 and ISO 14001 certified factory



The APOLLO G-300 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	Wall Mount type	G-303	G-304	G-304M2	G-305
	Rack Mount type*	G-303/RM	G-304/RM	G-304M2/RM	G-305/RM
RATED POWER	PV input	2.8 kW _p	3.9 kW _p	4.7 kW _p	5.6 kW _p
	AC output	2.5 kW	3.5 kW	4.2 kW	5 kW
SYSTEM	Controller	intelligent with microcomputer controlled			
	Technology	IGBT technology			
DC INPUT	Operating voltage range	165 - 300 V			
	Max. allowable voltage (for short period of time)	350 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	more than 91%			
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, Alarm			
	LCD display	DC / AC voltage, Current, Watt, Today kWh, Accumulated kWh, Calendar, Clock, Condition setting, Fault mains failure, inverter fault (Inhibitable)			
AUDIABLE ALARM	Multiple tone sound with reset for silence				
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)			
DIMENSION (W x H x D) in cm.	Wall mount case	37.5 x 49 x 22.9	37.5 x 49 x 22.9	43.9 x 52 x 28	43.9 x 52 x 28
	Rack mount case	48.2 x 19.6 x 47	48.2 x 19.6 x 47	48.2 x 22 x 49.7	48.2 x 22 x 49.7
WEIGHT in kg. (approximate)	Wall mount case	24	24	31	31
	Rack mount case	23	23	26	26
DESIGN REGULATION	Tested according to	AS 4777, AS 3100, IEC 61727 and IEC 62116			

* The rack mount case models are not included the floor standing rack mount enclosure. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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