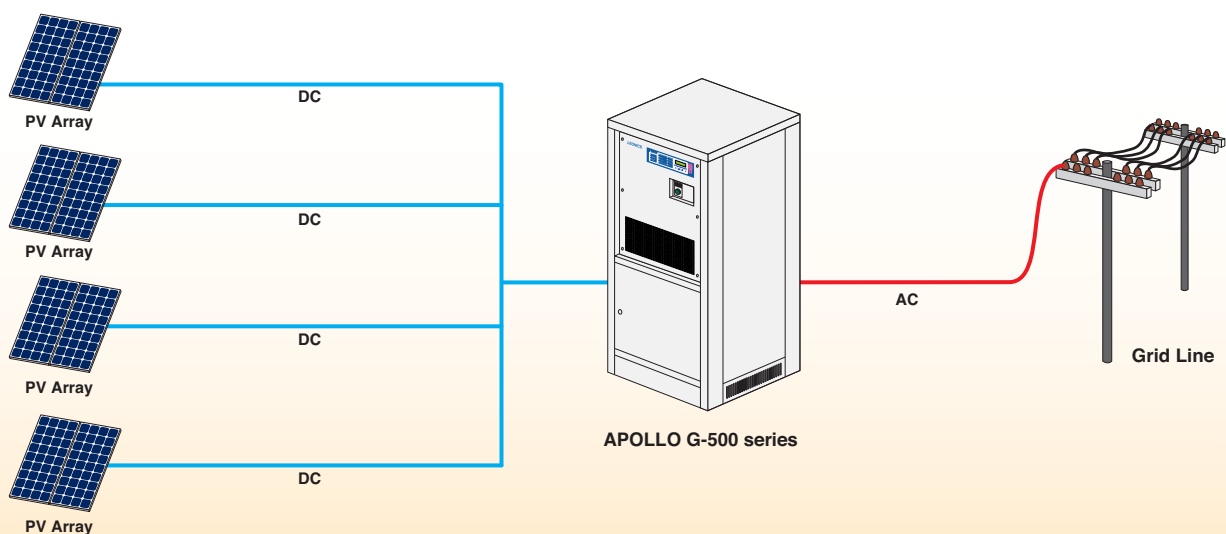


APOLLO G-500

SINGLE PHASE GRID CONNECTED CENTRAL INVERTER



- Single phase grid connected inverter with built-in output transformer
- Maximum inverter efficiency > 93%
- Total Harmonic Distortion $THD_i < 4\%$
- Integrate with PV Maximum Power Point Tracking (MPPT)
- Over and under voltage and frequency protections
- Islanding protection (IEC 61727 and IEC 62116 compliance) during failure of utility grid power supply
- Automatic start and shutdown during over heating
- Superior user protection with galvanic isolation
- Display LCD unit for voltage, current, watts, energy, and accumulated energy at inverter
- Master and slave operation for higher system energy production (option)
- ISO 9001 and ISO 14001 certified factory



The APOLLO G-500 series is high performance single phase grid connected central inverter that integrated with PV maximum power point trackers (MPPT) to extract maximum power generated from the PV arrays, and also system protection during failure of utility grid power supply. The APOLLO G-500 series inverter is suitable for medium to large scale grid connected solar power system.

SPECIFICATIONS

MODEL		G-501	G-502	G-503
RATED POWER		10 kW	15 kW	20 kW
SYSTEM		IGBT technology		
PV INPUT	MPPT tracking voltage range (V _{mp} of PV string)	270 to 500 Vdc (300 to 500 Vdc optional) (calculate by using V _{mp})		
	Maximum open circuit voltage (V _{oc} of PV string)	550 Vdc (600 Vdc optional) (calculate by using V _{oc})		
AC OUTPUT TO GRID LINE	Grid line voltage	220 / 230 / 240 Volt (-15%, +10%)		
	Phase	single phase		
	Frequency	50 / 60 Hz ± 0.5 Hz (± 0.2 Hz to ± 5 Hz adjustable)		
	Power factor	> 0.98		
	Total harmonic distortion	THD _i < 4 %		
	Power limiting	110 %		
ISOLATION	Galvanic isolation	yes		
EFFICIENCY	Inverter peak efficiency	> 93%		
PROTECTION	Input / Output	over voltage / under voltage (AC & DC), frequency (AC)		
	Islanding operation	active and passive anti-islanding		
	Over heat	automatic shutdown and restart		
	Surge dissipation	20 kA category C1 for AC (separate supply)		
INDICATOR	LED	Mains, Operating, Synchronize, PV, Over Temp., Alarm		
	LCD	Voltage, Current, Watt, Energy Today, Accumulated kWh		
POWER CONSUMPTION		less than 40 Watt in standby mode, 0 Watt in sleep mode		
AUDIABLE ALARM		main failure, inverter fault		
ACOUSTIC NOISE	At 1 metre	less than 50 dB (when fan does not run)		
COOLING		force fan cooling		
ENVIRONMENT	Temperature	0 - 45°C		
	Relative humidity	0 - 95 % (non - condensing)		
DESIGN	Standard	IEC 61727, IEC 62116, IEC 60335-1, AS 3100, AS 4777		
	Enclosure	IP 20		
DIMENSION	W x H x D (approx. in cm)	60 x 86.5 x 46	60 x 145 x 60	
WEIGHT	Approximate in kg.	190	220	260

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

Authorized Distributor:

LEO ELECTRONICS CO.,LTD.

119/50-51 MOO 8 BANGNA-TRAD RD., BANGNA, BANGNA, BANGKOK 10260 THAILAND.
Tel. 66-2746-9500, 66-2746-8708 Fax. 66-2746-8712
<http://www.leonics.com> • e-mail : RNE@leonics.com

Authorized Dealer: