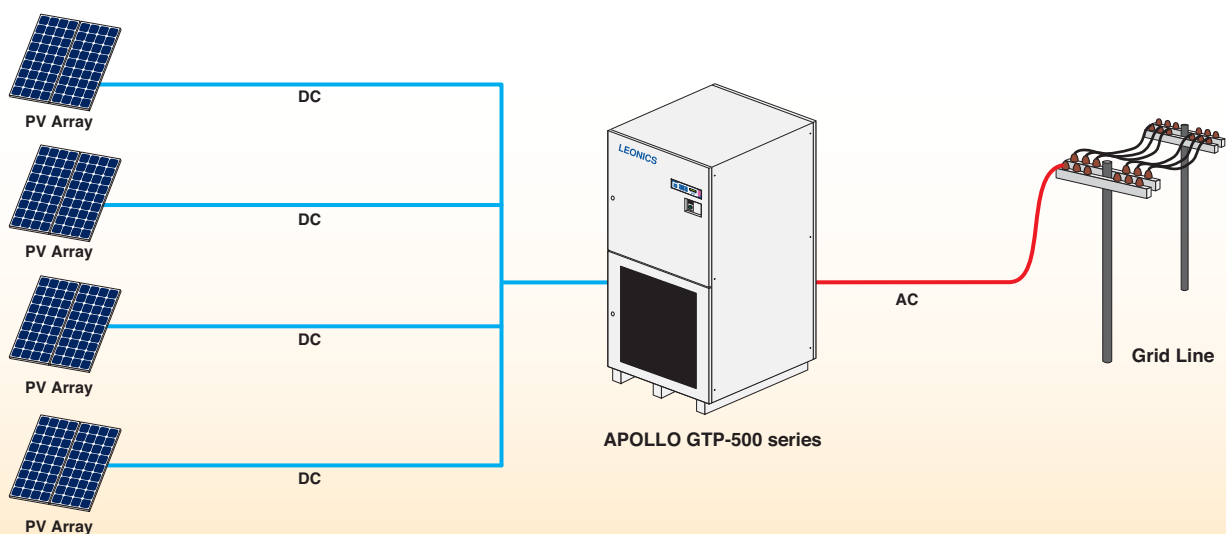


## APOLLO GTP-500

### THREE PHASE GRID CONNECTED CENTRAL INVERTER



- Three phase grid connected inverter with built-in output transformer
- Maximum inverter efficiency > 96%
- Total Harmonic Distortion  $THD_i < 4\%$
- Integrate with PV Maximum Power Point Tracking (MPPT)
- Over and under voltage and frequency protections
- Islanding protections (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 for each phase and 3 phases
- Master and slave operation for higher system energy production (option)
- ISO 9001 and ISO 14001 certified factory



The APOLLO GTP-500 Series is high performance three 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 GTP-500 series inverter is suitable for medium to large scale grid connected solar power system.

### SPECIFICATIONS

MODEL		GTP-501	GTP-502	GTP-503	GTP-504	GTP-505	GTP-506	GTP-507	GTP-508	GTP-509	GTP-510	GTP-511	GTP-512	
RATED POWER	PV input	33 kW	49.5 kW	66 kW	82.5 kW	99 kW	115.5 kW	137.5 kW	165 kW	198 kW	220 kW	247.5 kW	275 kW	
	AC output	30 kW	45 kW	60 kW	75 kW	90 kW	105 kW	125 kW	150 kW	180 kW	200 kW	225 kW	250 kW	
SYSTEM		IGBT technology												
PV INPUT	MPPT tracking voltage range (V <sub>mp</sub> of PV string)	270 to 500 Vdc (300 to 500 Vdc optional) (calculate by using V <sub>mp</sub> )						400 to 700 Vdc (calculate by using V <sub>mp</sub> )						
	Maximum open circuit voltage (V <sub>oc</sub> of PV string)	550 Vdc (600 Vdc optional) (calculate by using V <sub>oc</sub> )						780 Vdc (calculate by using V <sub>oc</sub> )						
AC OUTPUT TO GRID LINE	Grid line voltage	380 / 400 / 415 Volt (L-L), 220 / 230 / 240 Volt (L-N) (-15%, +10%)												
	Phase	three phase four wires												
	Frequency	50 / 60 Hz ± 0.5 Hz (± 0.2 Hz to ± 5 Hz adjustable)												
	Power factor	> 0.98												
	Total harmonic distortion	THD <sub>i</sub> < 4 %						THD <sub>i</sub> < 3 % (at 50% to 100%)						
	Power limiting	110 %												
ISOLATION	Galvanic isolation	yes												
EFFICIENCY	Inverter peak efficiency	93.0%			> 94.0%			> 95.9%			> 96.0%			> 96.3%
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												
REGULATION	Enclosure	IP 20												
DIMENSION	W x H x D (approx. in cm.)	60 x 185 x 105				90 x 188 x 105				120 x 215 x 105				
WEIGHT	Approximate in kg.	510	530	709	760	900	1,200	1,600	1,700	1,850	1,850	1,975	1,975	

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: