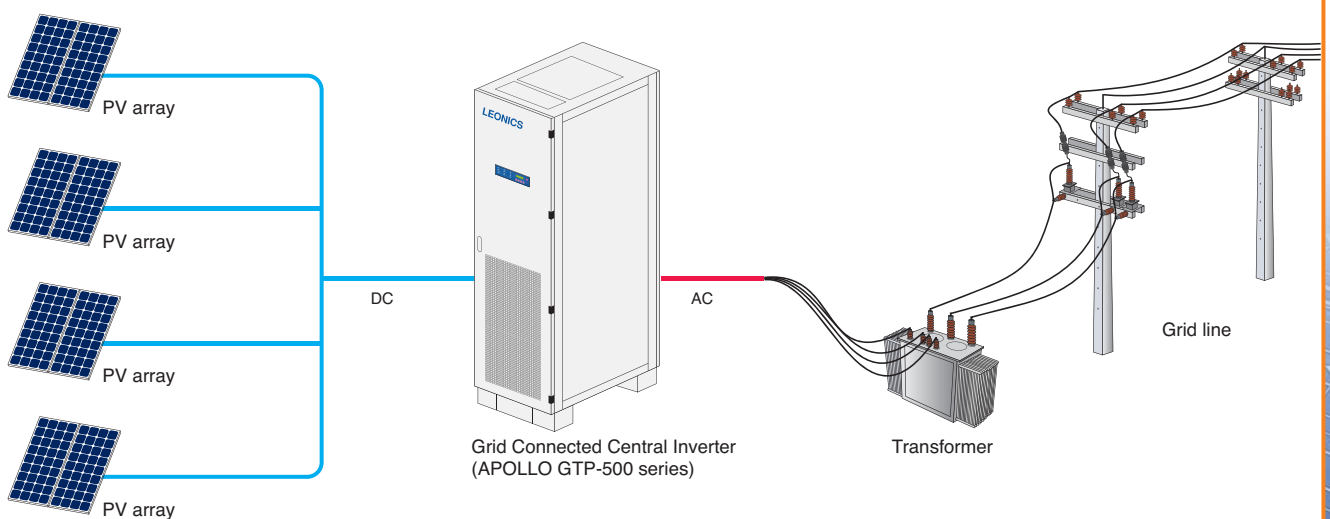


APOLLO GTP-500

Three Phase Grid Connected Central Inverter

- Three phase grid connected inverter with built-in output transformer
- Maximum inverter efficiency > 96%
- Low Total Harmonic Distortion (THDi)
- 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, watt, energy, and accumulated energy at inverter for each phase and three phase
- 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.

APOLLO GTP-500 series Three Phase Grid Connected Central Inverter

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 at 25°C cos ϕ = 1	30 kVA/30 kW	45 kVA/45 kW	60 kVA/60 kW	75 kVA/75 kW	90 kVA/90 kW	105 kVA/105 kW	125kVA/125 kW	150kVA/150 kW	180kVA/180 kW	200kVA/200 kW	225 kVA/225 kW	250 kVA/250 kW
SYSTEM		IGBT technology											
PV INPUT	MPPT voltage range (V _{mp} of PV string)	270 to 500 Vdc (300 to 500 Vdc optional) (calculate by using V _{mp})							400 to 700 Vdc (calculate by using V _{mp})				
	Maximum open circuit voltage (V _{OC} of PV string)	550 Vdc (600 Vdc optional) (calculate by using V _{OC})							780 Vdc (calculate by using V _{OC})				
	Maximum PV current	125 A	170 A	225 A	280 A	340 A	395 A	465 A	375 A	450 A	500 A	565 A	625 A
AC OUTPUT TO GRID LINE	Grid line voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (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	THDi < 3%											
	Maximum AC current	45.4 A	68.2 A	90.9 A	113.6 A	136.3 A	159 A	189.3 A	227.2 A	272.2 A	303 A	340.9 A	378.8 A
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 display	Input (voltage, current, power, frequency), Generated power, Generated energy, Accumulated energy, PV (voltage, current, power, energy, accumulated energy), status											
AUDIBLE ALARM		Mains failure, inverter fault											
POWER		less than 40 Watt in standby mode,											
CONSUMPTION		0 Watt in sleep mode											
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 (cm)	60 x 212 x 100			90 x 212 x 100				150 x 212 x 82				
WEIGHT (Approximate in kg)	Top cable entry	544	558	590	798	798	887	887	TBA	TBA	TBA	TBA	TBA
	Bottom cable entry	502	516	548	752	752	841	924	TBA	TBA	TBA	TBA	TBA

All inverter model, the cabinet can be either top or bottom cable entry depending on the system configuration. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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