LEONICS®

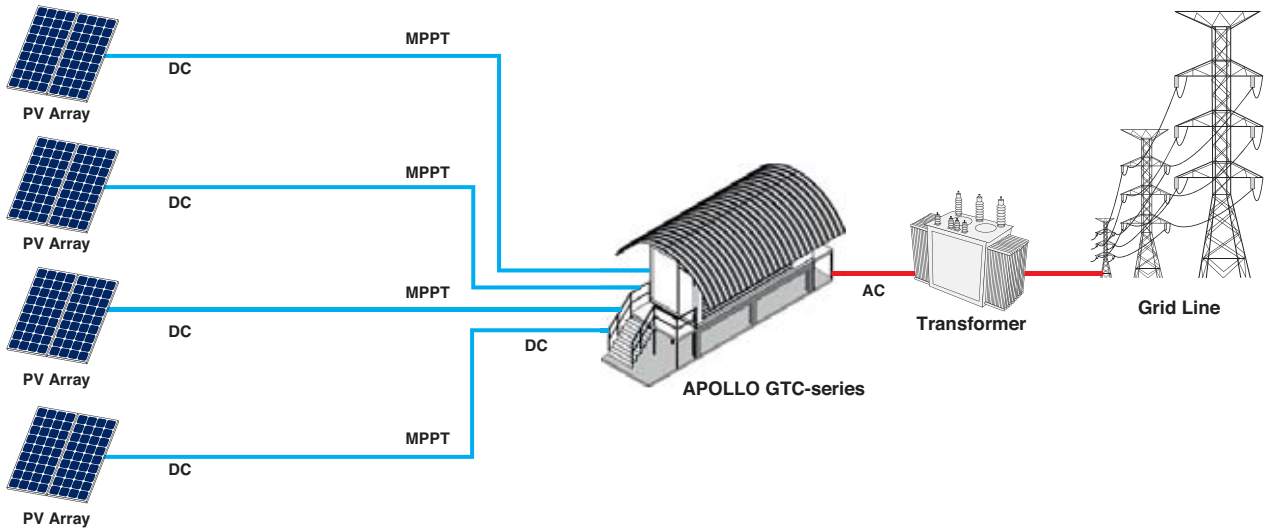
APOLLO GTC

THREE PHASE GRID CONNECTED CENTRAL INVERTER WITH CONTAINER

Note: Preparing foundation and building concrete base are customer's responsibility.

OPTION
- Solar-powered weather station
- Irradiation sensor
- PV module temperature sensor

- Three phase grid connected inverter with built-in output transformer
- Peak efficiency > 96.3% (CEC > 96.0% and Euro > 95.5%)
- Total Harmonic Distortion THDi < 4% (VSPP requirement)
- 2-6 parallel redundant inverters
- Integrate with 2-6 MPPT inputs
- Over and under voltage and frequency protections
- Over current protection phase to N, G
- Automatic Synchronize with utility grid line
- Islanding protections 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
- Fully automatic self-START in the morning and STOP in the evening
- Installation in container cabinet with door sensors, smoke detector, web camera and incontainer ambient temperature sensor
- ISO 9001 and ISO 14001 certified factory



The APOLLO GTC-Series is a three phase grid connected central inverter that integrated with multiple maximum power point trackers (MPPT) and PV input. The MPPT is an electronic control device that uses special algorithm to extract maximum power from the PV panels as maximum power from the PV panels depends on solar radiation, ambient temperature and Photovoltaic (PV) cell temperatures.

GRID CONNECTED CENTRAL INVERTER

LEONICS®

A5043 ISO 9001 LEONICS CO.,LTD. ISO 14001 EMS 01007/045

APOLLO GTC-series THREE PHASE GRID CONNECTED CENTRAL INVERTER

SPECIFICATIONS

MODEL		GTC-500	GTC-750	GTC-1000	GTC-1250	GTC-1500
RATED POWER	PV Input (max)	550 kW_p	825 kWp	1100 kWp	1375 kWp	1650 kWp
	Output	500 kW	750 kW	1000 kW	1250 kW	1500 kW
SYSTEM	Number of MPPT	2	3	4	5	6
	Configuration	Multi-inverter, Multi-PV with MPPT				
	Technology	High frequency switching, IGBT technology				
PV INPUT	MPPT tracking voltage range (Vmp of PV string)	400 to 700 Vdc (calculate by using Vmp)				
	Maximum open circuit voltage (Voc of PV string)	780 Vdc (calculate by using Voc)				
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	THDi < 4%				
	Power limiting	110%				
ISOLATION	Galvanic isolation	yes				
EFFICIENCY		Peak > 96.3% (CEC > 96.0%, Euro > 95.5%)				
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 (LCD for each phase and one remote LCD display for 3 phase data)				
POWER CONSUMPTION		less than 40 Watt / number of MPPT (standby mode) 0 Watt (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 54				
DIMENSION	W x H x D (approx. in metre)	2.44x2.64x3.66	2.44x2.64x4.86	2.44 x2.64x6.06	2.44x2.64x7.26	2.44x2.64x8.46
WEIGHT	Approximate in ton	5	7.5	10	12.5	15

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

Authorized Distributor
LEONICS ESCO CO.,LTD.
29 Soi Bangna-Trad Rd 34, Bangna, Bangna, Bangkok 10260 THAILAND
Phone. 0-2746-9500, 0-27468708 Fax. 0-2746-8712 e-mail : esco@leonics.com
▪ www.leonics.com ▪

Authorized Dealer: