

APOLLO GTC-series

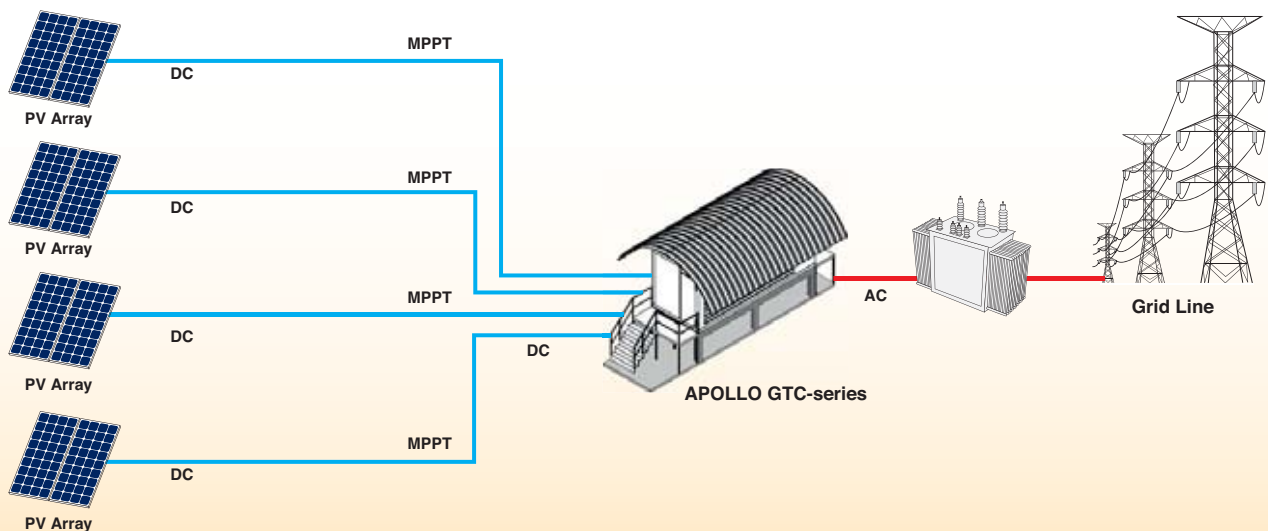
THREE PHASE GRID CONNECTED CENTRAL INVERTER WITH CONTAINER



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



- 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 9001:2008 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.

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 kW _p | 1100 kW _p | 1375 kW _p | 1650 kW _p |
| | 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 (V _{mp} of PV string) | 400 to 700 Vdc (calculate by using V _{mp}) | | | | |
| | Maximum open circuit voltage (V _{oc} of PV string) | 780 Vdc (calculate by using V _{oc}) | | | | |
| 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

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