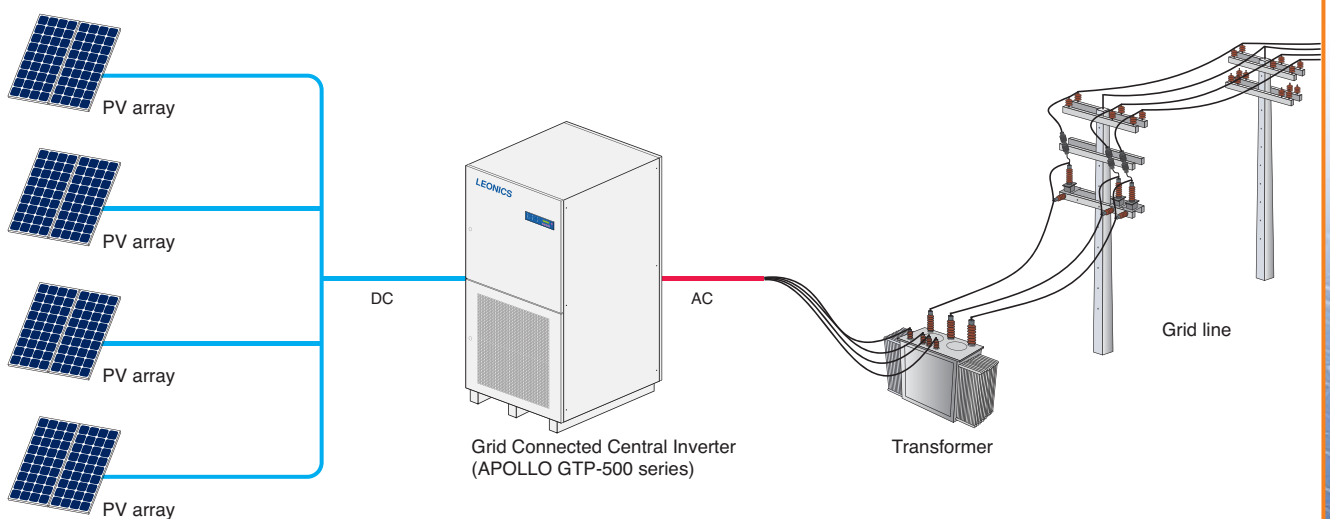


APOLLO GTP-500



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 $\phi = 1$ | 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 \pm 0.5 Hz (\pm 0.2 Hz to \pm 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 | $> 93.0\%$ | | | $> 94.0\%$ | | | $> 95.9\%$ | | | $> 96.0\%$ | | | $> 96.3\%$ |
| | Input / Output | Over voltage, under voltage (AC&DC), frequency (AC) | | | | | | | | | | | | |
| | Islanding operation | Active and passive anti-islanding | | | | | | | | | | | | |
| | Over heat | Automatic shutdown and restart | | | | | | | | | | | | |
| PROTECTION | Surge dissipation | 20 kA Category C1 for AC (separate supply) | | | | | | | | | | | | |
| | LED | Mains, Operating, Synchronize, PV, Over temp., Alarm | | | | | | | | | | | | |
| INDICATOR | 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 CONSUMPTION | | less than 40 Watt in standby mode, 0 Watt in sleep mode | | | | | | | | | | | | |
| | COOLING | Force fan cooling | | | | | | | | | | | | |
| ENVIRONMENT | Temperature | 0 - 45°C | | | | | | | | | | | | |
| | Relative humidity | 0 - 95 % (non - condensing) | | | | | | | | | | | | |
| DESIGN REGULATION | Standard | IEC 61727, IEC 62116, IEC 60335-1, AS 3100, AS 4777 | | | | | | | | | | | | |
| | Enclosure | IP 20 | | | | | | | | | | | | |
| DIMENSION (W x H x D) (cm) | Top-entry | 60 x 188 x 105 | | | 90 x 205 x 105 | | | | 120 x 205 x 105 | | | | | |
| | Bottom-entry | 60 x 148 x 105 | | 60x188x105 | 90 x 188 x 105 | | | | 120 x 205 x 105 | | | | | |
| WEIGHT (approx. in kg) | Top-entry | 544 | 558 | 590 | 873 | 873 | 911 | 911 | 1,050 | 1,250 | 1,350 | 1,538 | 1,538 | |
| | Bottom-entry | 438 | 530 | 580 | 827 | 827 | 865 | 865 | 1,050 | 1,250 | 1,350 | 1,595 | 1,595 | |

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

Authorized Distributor

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