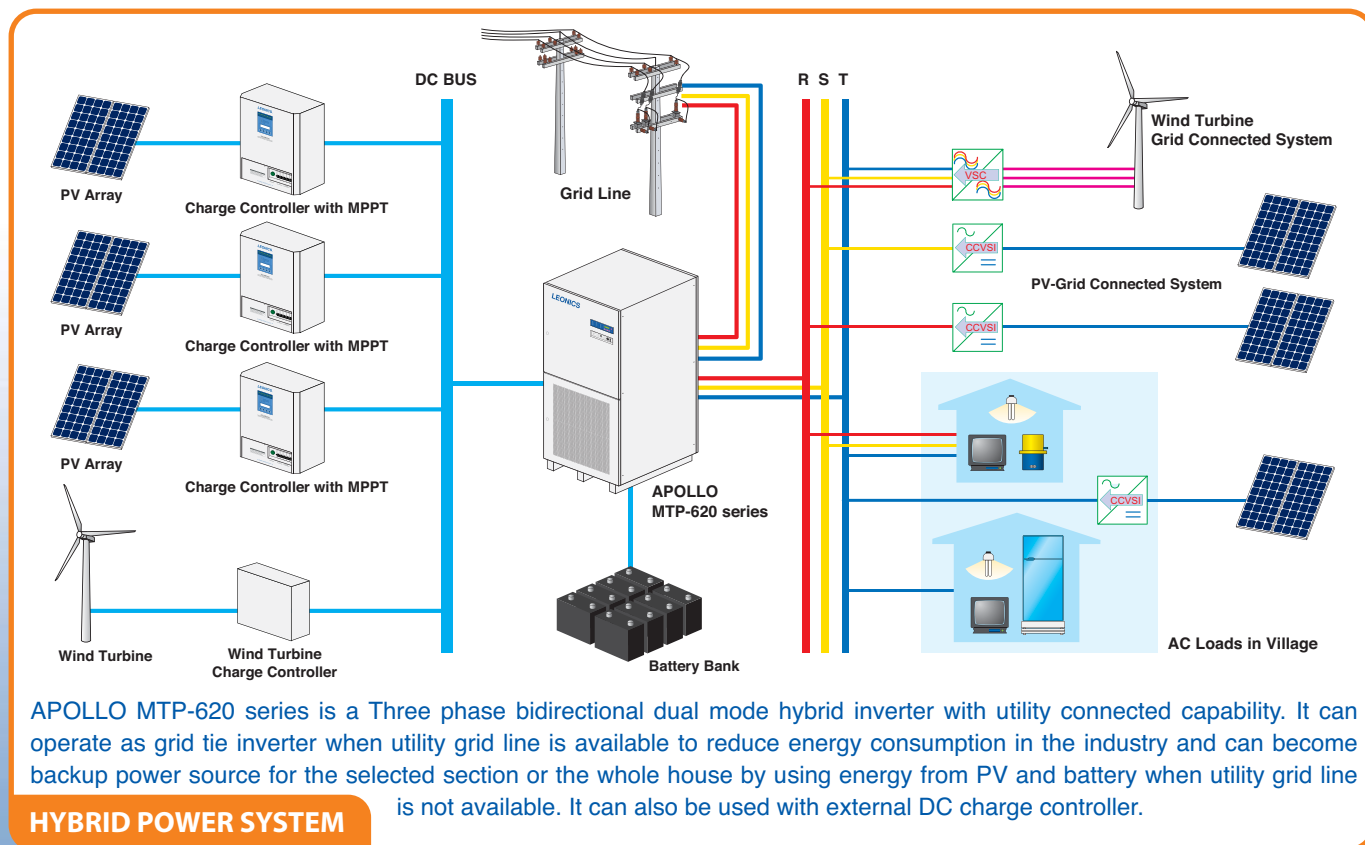




APOLLO MTP-620

THREE PHASE BIDIRECTIONAL DUAL MODE HYBRID INVERTER WITH UTILITY CONNECTED CAPABILITY

- Capable to use with multiple renewable energy sources in both DC coupling and AC coupling such as solar panel, wind turbine generator and micro hydro generator
- DC external charge control
- Monitor energy available from the renewable energy (DC) sources and minimize the charging current from the grid line
- Provide uninterruptible backup power to loads when utility grid line is not available
- Feed excess energy back to grid line
- Operate with Hybrid Control Command Unit (HCCU)
- Automatic battery equalization to prevent battery capacity loss and prolong battery life
- Battery temperature compensation (option)
- ISO 9001 and ISO 14001 certified factory
- Three phase bidirectional inverter with built-in output transformer
- Low harmonic distortion (less than 4%)
- High efficiency > 95%
- High reliability design for remote area
- Separate DC Bus for multiple source charging



APOLLO MTP-620 series is a Three phase bidirectional dual mode hybrid inverter with utility connected capability. It can operate as grid tie inverter when utility grid line is available to reduce energy consumption in the industry and can become backup power source for the selected section or the whole house by using energy from PV and battery when utility grid line is not available. It can also be used with external DC charge controller.

SPECIFICATIONS

| MODEL | | MTP-622E | MTP-623F | MTP-624F | MTP-625F | MTP-626F | MTP-627F | MTP-628F | MTP-629F | MTP-6210F | MTP-6211H | MTP-6213H | MTP-6215H | MTP-6217H | |
|-----------------------------|-----------------------------|---|----------|----------|----------|----------------|----------|-----------------|----------|-----------|-----------|-----------|-----------|-----------------|-------|
| RATED POWER | | 15 kW | 25 kW | 30 kW | 45 kW | 60 kW | 75 kW | 90 kW | 100 kW | 120 kW | 150 kW | 200 kW | 250 kW | 300 kW | |
| BATTERY | Nominal Voltage | 120 Vdc | 240 Vdc | | | | | | | | 480 Vdc | | | | |
| | Max. charging current | 84 A | 70 A | 84 A | 125 A | 168 A | 200 A | 250 A | 280 A | 335 A | 200 A | 280 A | 350 A | 418 A | |
| EXTERNAL DC CHARGER | Nominal voltage | 120 Vdc | 240 Vdc | | | | | | | | 480 Vdc | | | | |
| | Maximum current | 100 A | 100 A | 100 A | 200 A | 300 A | 300 A | 400 A | 400 A | 400 A | 300 A | 400 A | 400 A | 500 A | |
| | DC charge control | Relay dry contact 10 A (for over external charge protection) | | | | | | | | | | | | | |
| AC INPUT | Recommended generator power | > 30 kW | > 50 kW | > 60 kW | > 90 kW | > 120 kW | > 150 kW | > 180 kW | > 200 kW | > 240 kW | > 300 kW | > 400 kW | > 500 kW | > 600 kW | |
| | Voltage | 380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N) ± 10% | | | | | | | | | | | | | |
| | Phase | Three phase | | | | | | | | | | | | | |
| | Frequency | 50 / 60 Hz ± 3 Hz | | | | | | | | | | | | | |
| AC OUTPUT (BATTERY MODE) | Voltage | 380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N) | | | | | | | | | | | | | |
| | Voltage regulation | ± 5% (steady load), < 7% at 100% step load within 0.1 sec. | | | | | | | | | | | | | |
| | Phase | Three phase | | | | | | | | | | | | | |
| | Frequency | 50 / 60 Hz ± 0.1% (auto sensing) | | | | | | | | | | | | | |
| | Wave form | Pure sine wave | | | | | | | | | | | | | |
| | Total harmonic distortion | total < 4% | | | | | | | | | | | | | |
| | Maximum surge current | 200% at 2 sec. | | | | | | | | | | | | | |
| ISOLATION | Galvanic isolation | yes | | | | | | | | | | | | | |
| EFFICIENCY | Inverter peak efficiency | > 94% | | > 95% | | | | | | | | | | | |
| PROTECTION | | Over current, Over load, Short circuit, Over temperature, Over voltage, Under voltage | | | | | | | | | | | | | |
| INDICATOR | LED | AC Input, Generator Failure, Stand by/Run, Inverter, Charging, Load on Inverter, Overload, Low Battery, High temperature, Fault | | | | | | | | | | | | | |
| | LCD display | Inverter voltage, Inverter current, Inverter frequency, Inverter power, AC input voltage, AC input current, AC input frequency, AC input power, Load voltage, Load current, Load power, Battery voltage, Battery current, Battery state of charge(%), Internal charging current, External DC charging current, Battery temperature (option), Equalizatiton Date, Today Energy (Inverter, AC Input, Battery), Accumulated energy (Inverter, AC Input, Battery), System status, Time, Date, Heat sink temperature, Data Log | | | | | | | | | | | | | |
| AUDIABLE ALARM | | Low battery, Inverter fault, High temperature | | | | | | | | | | | | | |
| COOLING | | Automatic cooling fan | | | | | | | | | | | | | |
| ENVIRONMENT | Temperature | 0 - 45°C | | | | | | | | | | | | | |
| | Relative humidity | 0 - 95 % (Non - condensing) | | | | | | | | | | | | | |
| DESIGN STANDARD | | AS/NZ 3100:2002 | | | | | | | | | | | | | |
| DIMENSION W x H x D (cm) | Control Unit | 60 x 188 x 105 | | | | 90 x 188 x 105 | | 80 x 205 x 105 | | | | D1* | D2** | 110 x 205 x 105 | |
| | Transformer Unit | - | | | | - | | 120 x 205 x 105 | | | | | | 110 x 205 x 105 | |
| WEIGHT (approx. in kg) | Control Unit | 412 | 440 | 450 | 500 | 805 | 850 | 527 | 527 | 527 | 527 | 527 | 745 | 745 | 745 |
| | Transformer Unit | - | - | - | - | - | - | 880 | 910 | 970 | 1,500 | 1,620 | 1,500 | 1,600 | 1,800 |

D1* = 80 x 205 x 105 cm for control unit and 120 x 205 x 105 for transformer unit, D2** = 110 x 205 x 105 cm for control unit and transformer unit. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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