

TP600-1U Series

Compact Standalone Inverters



- Standalone design
- Also available with front terminals
- True sine wave output with THD < 3%
- Galvanic isolated circuits
- Serial interface RS232 and RS485
- Built-in automatic transfer switch (ATS) with selectable operating mode

Modern solid state device with patent pending control algorithms, the TP600-1U inverter series is a compact and cost-effective solution for most telecom and industrial applications. The compact mounting package makes this model the solution of choice for limited space applications.

| Model | Output power | Nominal input voltage | | | | |
|----------|--------------|-----------------------|-------|--------|--------|--------|
| | | 24Vdc | 48Vdc | 110Vdc | 125Vdc | 220Vdc |
| TP605-1U | 500VA | ✓ | ✓ | ✓ | ✓ | ✓ |
| TP610-1U | 1kVA | - | ✓ | ✓ | ✓ | ✓ |

Electrical

- Operating input voltage range: 20-29.5Vdc (24Vdc), 40-59.5Vdc (48Vc), 91.5-136Vdc (110Vdc), 104-143VDC (125VDC), 183-272Vdc (220Vdc)
- Output frequency: 50/60Hz ± 0.1%
- Power factor: 0.8*
- Efficiency: 90% typical
- Output nominal voltage: 110/120Vac, 220/230/240Vac
- Voltage variation: ± 2% Unout
- Crest factor: 3:1
- Dynamic response time: < 30ms
- Isolation:
 - AC - DC: 2000Vrms
 - DC - Ground: 2000Vrms
 - AC - Ground: 2000Vrms
- THD: < 3% linear load, < 5% non linear load
- Overload: 125% - 60 sec. (10sec. for ATP660)
110% - 10 min. (30sec. for ATP660)
- MTBF: >100.000 hours

* Power factor is 0.7 for TP640, TP650 and TP660

Automatic Transfer Switch

- AC voltage range: -25% to +20% Nominal Vin
- Frequency range: 45 to 65Hz
- Operating modes: online (load supplied primarily by inverter) and offline (load supplied primarily by AC mains)
- Transfer time: 5-8ms

User interface

- LED indicators: Operating mode (On, Bypass, AC input), Fault, DC Voltage, Load Level
- 4 dry contacts for alarms: Line Fail, Low DC Voltage, Inverter Fault, Overload
- Audio: Internal speaker for alarms
- Serial port RS232 and RS485
- Optional: external Ethernet interface

Mechanical (WxHxD)

- 482.6 x 44.9 x 345mm, 5kg

Environmental

- Operating: -10 to +60°C, with linear power derating above 40°C
- Storage temperature: -40 to +85°C
- Humidity: 0 to 95% RH non-condensing
- Altitude: -500 to +2800m
- Cooling: Forced air
- Ingress protection rating: IP20

Protection

- Reversed polarity
- Overtemperature
- Overload
- Output shortcircuit
- DC overvoltage
- DC undervoltage
- Bypass overvoltage
- Bypass undervoltage

Agency Compliance

Safety

- EN 60950-1, CE Marked to LVD 2006/95/EC

Emissions

- EN55022
- EN61000-3-2
- EN61000-3-3
- EN55024

Immunity

- EN 61000

Galvanic isolation

