

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	220Vdc
TP605-1U	500VA	✓	✓	✓	✓
TP610-1U	1kVA	-	✓	✓	✓

Electrical

- Operating input voltage range: 20-29.5Vdc (24Vdc), 40-59.5Vdc (48Vdc), 91.5-136Vdc (110Vdc), 183-272Vdc (220Vdc)
- Output frequency: 50/60Hz ± 0.1%
- Power factor: 0.8
- Efficiency: 88 - 90%
- Output nominal voltage: 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

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 SNMP 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

