

TP600 Series

Compact Standalone Inverters



- Standalone design
- 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 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/125Vcc/220Vdc
TP610	1kVA	A	-	-
TP620	2kVA	B	A	A
TP630	3kVA	-	B	B
TP640	4kVA	-	B	B
TP650	5kVA	-	C	B
TP660	6kVA	-	-	B

Electrical

- Operating input voltage range: 20-29.5Vdc (24Vdc), 40-59.5Vdc (48Vdc), 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)

- A - 482.6 x 91 x 301mm, 6kg
- B - 482.6 x 91 x 366mm, 12kg
- C - 482.6 x 91 x 454.2mm, 15kg

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

