

# TP600D Series

## Compact Standalone Inverters



- Standalone design with integrated LCD display.
- 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 TP600D inverter series is a compact and cost-effective solution for most telecom and industrial applications. Easy operating and real time monitoring of system parameters on the large LCD display. 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
TP610D	1kVA	A	A	A
TP620D	2kVA	B	A	A
TP630D	3kVA	-	B	B
TP640D	4kVA	-	B	B
TP650D	5kVA	-	C	B
TP660D	6kVA	-	-	B

### 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

- Parameters shown on the LCD display: IN/OUT AC voltage and frequency, DC voltage, operating mode (online / offline), load level, alarms, 100 event log.
- 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

