TEST & MEASUREMENT INSTRUMENTS — DATASHEET

ETP6006C-PS / ETP6012C-PS / ETP6018C-PS / ETP6024C-PS

ETP-C Series Single-Channel DC Power Supply



OVERVIEW

The ETP-C series is a single-channel DC regulated power supply. The input voltage and the output voltage and current are adjustable, and the external battery charging output is adjustable as well. A 2.4-inch colour LCD, personalised settings and automatic switching between constant-voltage (CV) and constant-current (CC) modes are built in. Advanced switching power-supply control technology and components give high efficiency, light weight and energy-saving, environmentally friendly operation. WiFi communication and 485 communication are available as options.

FEATURES

- Maximum adjustable output: voltage 60 V, current 24 A, power 1440 W
- External input supply 6 V–70 V
- Automatic CV / CC mode switching
- Keypad and encoder setting; 9 groups of shortcut parameters can be stored and recalled
- Battery charging function with personalised settings
- Internal and external temperature detection; an external thermistor can be connected for temperature measurement
- Over-voltage, over-current, over-power and over-temperature protection
- Intelligent temperature-controlled fan, energy-saving
- 2.4-inch colour LCD, adjustable screen brightness
- Communication: USB (Type-C); WiFi optional; 232-to-485 module optional
- Host PC software supported; baud rate selectable: 9600 / 19200 / 38400 / 57600 / 115200

SPECIFICATIONS

Item	ETP6006C-PS	ETP6012C-PS	ETP6018C-PS	ETP6024C-PS
Input voltage	6–70 V			
Max. output voltage	(Input voltage ÷ 1.1) − 1 · up to 60 V			
Output current	0–6 A	0–12 A	0–18 A	0–24 A
Output power	0–360 W	0–720 W	0–1080 W	0–1440 W

Item	ETP6006C-PS	ETP6012C-PS	ETP6018C-PS	ETP6024C-PS
Voltage resolution	0.01 V			
Output current resolution	0.001 A	0.01 A		
Input voltage accuracy	±(1 % + 5 digits)			
Output voltage accuracy	±(0.3 % + 3 digits)			
Output current accuracy	±(0.5 % + 5 digits)			
Battery voltage accuracy	±(0.5 % + 3 digits)			
Output ripple	100 mV	250 mV @ 6 A	250 mV @ 6 A	100 mV @ 12 A · 150 mV @ 24 A
Load regulation, CV mode	±(0.1 % + 2 digits)			
Load regulation, CC mode	±(0.1 % + 3 digits)			
External temperature sensor range	−10 ℃ to 100 ℃ / 0 ℉ to 200 ℉			
External temperature sensor error	±3 ℃ / ±6 ℉			

GENERAL SPECIFICATIONS

Display	2.4-inch colour LCD, adjustable brightness
Interfaces	USB Type-C · WiFi optional · 232-to-485 module optional
Dimensions	160 mm × 78 mm × 336 mm (L × W × H)
Weight	1.3 kg

Specifications are as published in the ETP-C series technical data sheet. Instruments are quoted per enquiry — contact with your voltage and current range for pricing and availability.