ETP-E Series Programmable DC Power Supplies

ETP-E Series — 450 W to 1800 W, Single Output



OVERVIEW

The ETP-E series programmable multi-function DC power supplies deliver 450 W to 1800 W with a four-digit LED display showing voltage, current and power at the same time — clear, simple and easy to operate, with continuously adjustable, stable output. A 5 V / 2 A USB charging function is built in. Typical uses are hydro and thermal power plants, new-energy batteries, automated test systems, burn-in testing, quality inspection and serialized production testing.

FEATURES

- Output power from 450 W to 1800 W across twenty models
- Resolution up to 0.01 V, 0.01 A and 0.01 W
- Voltage, current and power displayed simultaneously
- 5 groups of quick parameter storage and fast recall (preset)
- List mode: programmable sequence output with settable cycle interval
- SENSE remote compensation — compensates lead voltage drop for better output accuracy
- ON / OFF output switch — the output state is always under instant control
- OVP over-voltage and OCP over-current protection settings
- Encoder adjustment for precise, digit-by-digit voltage and current setting
- RS232 and USB interfaces fitted as standard — PC control, PLC integration and burn-in systems
- SCPI and Modbus programming protocols for remote control
- Settable communication address; RS485 via an external converter cable
- Intelligent temperature-controlled fan — energy saving; stable full-load output over long periods
- Five protections: over-voltage, over-current, over-power, over-temperature and short circuit

MODEL SELECTION

Model	Output Voltage	Output Current	Output Power
ETP1530E	0.01–15 V	0.01–30 A	450 W
ETP3015E	0.01–30 V	0.01–15 A	450 W
ETP5010E	0.01–50 V	0.01–10 A	500 W
ETP1005E	0.01–100 V	0.01–5 A	500 W
ETP3020E	0.01–30 V	0.01–20 A	600 W

Model	Output Voltage	Output Current	Output Power
ETP6010E	0.01–60 V	0.01–10 A	600 W
ETP3030E	0.01–30 V	0.01–30 A	900 W
ETP1560E	0.01–15 V	0.01–60 A	900 W
ETP6015E	0.01–60 V	0.01–15 A	900 W
ETP5020E	0.01–50 V	0.01–20 A	1000 W
ETP2050E	0.01–20 V	0.01–50 A	1000 W
ETP10010E	0.01–100 V	0.01–10 A	1000 W
ETP6020E	0.01–60 V	0.01–20 A	1200 W
ETP8015E	0.01–80 V	0.01–15 A	1200 W
ETP5030E	0.01–50 V	0.01–30 A	1500 W
ETP3050E	0.01–30 V	0.01–50 A	1500 W
ETP15010E	0.01–150 V	0.01–10 A	1500 W
ETP3060E	0.01–30 V	0.01–60 A	1800 W
ETP6030E	0.01–60 V	0.01–30 A	1800 W
ETP12015E	0.01–120 V	0.01–15 A	1800 W

TECHNICAL PARAMETERS

Stabilized voltage (CV)	Voltage stability ≤ 2 % · Load stability ≤ 0.5 %
Stabilized current (CC)	Current stability ≤ 0.5 % · Load stability ≤ 0.5 %
Preset accuracy	Voltage 0.1 V · Current 0.1 A
Ripple and noise	Vpp ≤ 1 %
Voltage resolution	0.01 V (below 100 V) · 0.1 V (100 V and above)
Current resolution	0.01 A
Power resolution	0.01 W (below 100 W) · 0.1 W (100 W and above) · 1 W (1000 W and above)
Standard interfaces	RS232, USB
Protocols	SCPI, Modbus
Power input	AC 220 V ±10 % / 50 Hz, or AC 110 V ±10 % / 60 Hz (optional — specify before purchase)
Operating environment	Indoor; altitude ≤ 2000 m; temperature 5–40 °C; humidity 10–85 % RH
Storage environment	Temperature −20 to 80 °C; humidity ≤ 80 % RH
Dimensions	370 × 245 × 150 mm (L × W × H)
Weight	Net 4.7 kg

APPLICATIONS

- New-energy batteries: EV and power batteries, solar panel performance testing — R&D, production and quality inspection
- Power electronics: grid equipment and LED driver testing
- Switching power supplies and UPS performance testing

- Automotive electronics: onboard chargers, DC charging piles, battery management systems (BMS), motor drives and generators
- Automated integration testing: ATE systems, burn-in, quality inspection and serialized testing
- Aerospace and laboratories: power-system testing, communication base-station UPS testing