ET547X Series Handheld DC Electronic Loads

ET5470 / ET5471 / ET5475 / ET5476 — Portable, Battery-Powered



OVERVIEW

The ET547X series portable DC electronic loads use a high-performance chip with a high-speed, high-accuracy design, in a rigid yet compact housing. Compared with similar products they offer a stronger price-to-performance ratio. Typical uses are production lines (switching power supplies, linear power supplies, mobile phone adapters and all kinds of batteries), research institutes, automotive electronics and aerospace.

FEATURES

- CV and CC basic operating modes cover the everyday testing needs of most products
- Much smaller and lighter than comparable loads — easy to carry (0.82 kg)
- Built-in large-capacity rechargeable battery — works in places without external power
- Up to 150 W, 20 A and 300 V across the four models
- High-brightness, large LED display
- Over-voltage, over-current, over-power and over-temperature protection
- Intelligent fan cooling
- USB Type-C communication interface fitted as standard
- In communication mode, CV, CC and CR modes plus dynamic and scan functions are supported
- Charges from the supplied 5 V / 3 A adapter

TECHNICAL SPECIFICATIONS

Item	ET5470	ET5471	ET5475	ET5476
Channel	Single	Single	Single	Single
Rated power	80 W	80 W	150 W	150 W
Input voltage	0–80 V	0–150 V	0–150 V	0–300 V
Input current	0–20 A	0–20 A	0–20 A	0–10 A
CV mode range	1–80.00 V	1–150.0 V	1–150.0 V	1–300.0 V
CV resolution	10 mV	10 mV	100 mV	100 mV
CV accuracy	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)
CC mode range	0–20.00 A	0–20.00 A	0–20.00 A	0–10.00 A
CC resolution	10 mA	10 mA	10 mA	10 mA

Item	ET5470	ET5471	ET5475	ET5476
CC accuracy	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)
Voltage readback range	0–80.00 V	0–150.0 V	0–150.0 V	0–300.0 V
Voltage readback resolution	10 mV	10 mV	10 mV	100 mV
Voltage readback accuracy	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)
Current readback range	0–20.00 A	0–20.00 A	0–20.00 A	0–10.00 A
Current readback resolution	10 mA	10 mA	10 mA	10 mA
Current readback accuracy	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)	±(0.2 % RD + 0.2 % FS)
Over-voltage protection	Input cut above 82 V	Input cut above 155 V	Input cut above 155 V	Input cut above 310 V
Over-current protection	Input cut above 21 A	Input cut above 21 A	Input cut above 21 A	Input cut above 11 A
Over-power protection	85 W	85 W	85 W	155 W
Over-temperature protection	85 °C	85 °C	85 °C	85 °C

GENERAL INFORMATION

Display	High-brightness LED display
Interface	USB Type-C
Power supply	Built-in rechargeable battery; charging via the supplied 5 V / 3 A adapter
Dimensions	90 × 116 × 165 mm
Weight	0.82 kg