

PWL 200

DC Electronic load

200W 0-60V 0-50A



PWL electronic loads are reliable and usable equipment intended for professional power electronics testing. They are designed to fulfil reliability and life time demands needed in long term reliability and production testing in electronics industry.

PWL200 is independent load unit (no mainframe is needed). It is an economical solution designed for lifetime, reliability and production testing. In research and development it can be used as an easy to use bulk load unit. High reliability components, like European fans and Japanese long life electrolytics have been used. Mosfets have low junction temperature to reach long lifetime.

Load unit is capable to handle 200W continuously and 250W until over temperature protection activates. (Rugged load terminals are in the front panel. This ensures flexible cabling in all circumstances. Load current is set with optical encoder in the front panel. Active current control is indicated with green led. If load unit can not for reason or an other control the current to desired value, yellow led indicates abnormal situation. Automatic fan control, over temperature protection and over power protection ensure long operational lifetime.



It is possible to see all important electrical values on the display at the same time.

All necessary control modes are available and other carefully selected functions are especially intended for switch mode power supply testing. Despite these numerous functions the user interface is simple. PWL200 electronic load unit is designed by power supply designers for power supply designers.

PWL 200

Electrical specification

Configuration: 200W.

Control mode: Constant Current, Voltage, Power and Resistance

Pulsed mode load is available in constant current and constant resistance mode.

Frequency steps: 10, 25,50,75,100,250,500,750,1000,2500,5000,7500,10000 and 25000Hz

Duty cycle steps: 10, 25,50,75 and 90%

Current: Adjustable 0-50A.

Voltage: 0 – 60VDC

Power: 200W in 20°C ambient. 250W short period (limited by over temp protection)

Minimum resistance: 35mohm typical.

Protections: Over power protection. Controlled current max 50A. Reverse polarity protection 50A + internal fusing for catastrophic failure protection. Automatic fan control. Over temperature protection.

Memory: It is possible to save settings to memory. After mains power off all settings can be read from memory (if auto recall on is selected) and load unit continue operating with saved settings. This is excellent performance in long periodic testing.

Remote control: Isolated RS-485 (reinforced insulation between RS-485 bus and load terminals)

Mains supply: 230VAC. 50-60Hz.

Manufacturer: Powecon Oy, Elementitie 8, 41160 Tikkakoski, Finland.

www.powecon.fi