

Embedded Power Supply with Battery Charging

Rugged design * High efficiency * Easy integration * Industrial * Air/Ground vehicle applications

The Ectron ECT-114-PWR Power Supply board delivers efficiency as high as 90% at 75 Watts, lowering input power requirements as well as heat generation. Operation of -40°C to $+85^{\circ}\text{C}$ is tested and guaranteed. Low-profile, surface mount components reduce susceptibility to shock and vibration. The module is engineered for rugged applications in Industrial, Defense, Automotive including on-vehicle and test equipment markets

Features :

- 75 watt embedded Power Supply with battery charging
- 18V to 36V DC Input Range
- Cost-effective, highly flexible power solution
- For use with Microprocessor based systems for control
- Programmable battery charging option for NiMH, NiCAD batteries with upto 16 cells
- Multiple output options:
 - +12V DC, 70 Watts
 - +5V DC, 3 Watts
 - +3.3V DC, 1.5 Watts
 - +/-15V DC, 1.5 Watts
- MIL-STD-810G Compliant
- Effective noise suppression for DC switching
- EMI suppression filter supporting large current, wide frequency
- Operating Ambient Range: -40°C to $+85^{\circ}\text{C}$

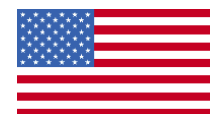


Featuring a rugged mechanical design, this small form factor (136 mm x 116 mm) card is designed to be used as a programmable power supply solution with battery charging capability in a processor/microcontroller based embedded system stack, operate without any active cooling over extended temperature ranges (-40°C to $+85^{\circ}\text{C}$), and provide resistance to high levels of shock and vibration (per MIL-STD-810G fixed wing jet, rotary aircraft, and tracked ground vehicle conditions). Individual components are rated -40°C to $+105^{\circ}\text{C}$ and the overall board is built to IPC-A-610 class 2.

The ECT-113-PWR supply provides 75 watts of combined power output (+3.3V, +5V, +12V) and comes equipped with EMI filtering and transient protection specifically designed for withstanding spikes of up to 125V DC.

Applications:

- Industrial, Medical and Test Equipment
- General Purpose Wide VIN Regulation
- Factory and Building Automation
- Smart Grid and Energy
- Automotive and Defense applications
- Test and Measurement equipment
- COTS MIL applications



Made in the USA