

Man Portable Energy Pack (MPEP) series

MPEP facilitate on time full scale energy needed for field trooper in combat missions.

Independent Energy supply in the field for Soldier and Unit

General Description

MPEP is a man portable energy pack that is designed to provide power to man portable equipment such as ruggedized field computers, displays, night vision system, laser designator and portable PDU's, MP3(For recorded mission instructions). It consists of Li-Ion type of batteries such as 2590 Ultralife battery, peripheral electronics and firmware. It can be complementary to PCDU series, or stand alone.

It has the capabilities of power management:

- Provides PCDU voltage to equipment and charge MPEP battery while connected to vehicle.
- Provides battery voltage when disconnected from vehicle.
- Selects charging current per vehicle source.
- Provides feedback on charge status for indication.
- Provides two SMBus for:
 - ✓ Charging parameters (Voltage, Current and duration)
 - ✓ Communication with portable equipment.
- Push button for temporary battery indication (Colored LED).
- Other supply voltages are optional.



Typical Specifications

Battery type:	2590 or equivalent (Other batteries can be adopted per request)
Max charge voltage:	16.8VDC
Charge current determination:	6ADC or 3ADC max.
Battery status information:	SMBus +LED (GYR colors) included.
Charge status information:	SMBus communication
Efficiency:	>95%
Thermal control:	Included
Push button:	For temporary battery indication, included.
Size & Weight	16.2 (12.1) X 10.6 (7.1) X 17.5 (13.5) cm, 820gr. (No Battery)

Environmental Conditions:

Fully comply with MIL-STD-810F:	
Operating Temperatures:	- 20°C to 55°C
Storage temperatures:	- 20°C to 55°C
Storage without battery :	- 40°C to 70°C
Vibration:	Method 514.5, Proc I, Cat 20 Ground
Vehicle:	
Shock:	40g X 15ms Saw Tooth
Humidity:	Method 507.4 (240 hrs up to 95% @60°C)
Salt Fog	Method 509.4
Operating altitude:	Up to 30,000 @-40°C
Complies with MIL-STD-461E:	CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103.

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