

MIL/MC3900 Military Battery Management System



- Rugged and reliable construction
- Universal battery management and charger system for military batteries
- Supports Nickel Cadmium, Nickel Metal Hydride and Lead Acid batteries
- 110V/230V ac or 24V dc supply inputs

MIL Power manufactures and supplies quality products to local, regional and global defence organisations. Our products meet the high stress demands of the military and are both durable and easy to use in the field, both of which are vital components of military equipment.

Designed and manufactured in the United Kingdom, the MIL/MC3900 is a 10-way battery management and charger system for military battery packs. This family of chargers was introduced into service in 1995 and hundreds are now in use by armed forces around the world.

With fast, normal, and balance charging and programmable discharge the MIL/MC3900 can fully charge, condition, discharge and measure the capacity of the battery under test. Each of the 10 outputs can perform a different operation. For example one channel may be conditioning a 24V battery while another is fast charging a 14V battery. With 20 programmes and 9 functions the MIL/MC3900 covers most military requirements for charging and battery management.

Functions include:

- Pre charge test – to check battery fit to charge
- Fast charge – to recharge packs quickly and have them available for operations
- Normal charge – essential to activate cells after long term storage
- Capacity test – charge/discharge/charge cycle to test packs
- Discharge – to test packs after storage or after charging with another charger
- Condition – 2 cycles of charge/discharge to bring packs to capacity after storage
- Life test – continuous sequence of charge/discharge cycles for testing sample packs

All functions are selected from the alphanumeric LCD display using push button switches. The display gives all the operational information for each channel. While charging and discharging the display shows battery voltage, and capacity if measured, and fault reports such as low capacity, short circuit, and high resistance.

Function	Value
Nominal battery voltage	6V to 24V
Fast charge current	100mA to 3000mA
Normal charge current	100mA to 3000mA
Charge termination	Voltage profile or timed
Discharge current	100mA to 2000mA
Number of channels	10
Output connectors	6 pin MIL-C-26482 series
Output power	500 Watts
AC supply voltage	110V/230V ac internally switched 50/60Hz
Max power consumption	700 Watts
DC supply voltage	20 to 30 Volts dc
Max DC current drain	30 Amps at 20Volts dc
Size L * W * H	340mm * 210mm * 180mm
Weight	30kg
Charging temperature	0°C to +55°C
Storage temperature	-20°C to +70°C

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