Extended capability multi chemistry charger

EcMC² 350

Military workshop charger
Dependable performance



The EcMC² 350 is a state of the art five-channel, ten-position charger. Easy to transport and friendly to operate, it automatically recognizes the type of military battery. Recharges batteries simultaneously, regardless of SOC or chemistry.

Benefits

- Charges different battery types
- Charges different battery chemistries
- Fast battery charge
- Wheeled and transportable
- May be removed from outer wheeled transport case
- Worldwide usage
- Quiet operation
- Intuitive plug-and-charge operation
- LED indication of charge status

Key features

- Automatic battery recognition
- Charges all five channels simultaneously, regardless of battery type or chemistry
- Conditioning charge for battery storage
- On-board HMI
- Rugged construction for a long life of field operations
- Wide AC input, for worldwide functionality
- Wide DC input, for charging from vehicles, fuel cells, etc…
- Input cables *(AC, DC)* included
- Electronic and mechanical batteries interface included

Typical applications

- Capability to charge more than 50 military Li-ion, Ni-MH and Ni-Cd battery types
- Ideal for missions involving various battery types:
  - Base of operations or workshop
  - Peace keeping
  - Law enforcement
  - Exercise and training

Electrical characteristics

AC input voltage	85 – 265 V (50-60 Hz,+/- 5%)
DC input voltage	11 – 14 V and 19 – 32 V
Output power	350 W
Charger voltage	4 – 34 V
Maximum output current	10 A (per channel)

Physical characteristics

Length	685 mm
Width	460 mm
Depth	340 mm
Weight	< 15 kg (AC, DC cables included)
Volume	107 litres
Environmental Protection	IP44 (open) IP67 (closed)
Operating Temperature Range	-20°C to +60°C
Storage Temperature Range	-40°C to +75°C

References

Temperature	MIL-STD 810E 503.3
Altitude	MIL-STD 810E 500.3 II-3
Vibration	MIL-STD 810E 514.4 Cat 8
Shock	MIL-STD 810E 516.4 I
Drop	MIL-STD 810E 516.4 IV
Salt Fog	MIL-STD 810E 509.3 I
Immersion	MIL-STD 810E 512.3 II-3
NSN	6130 14 564 1772
Part number	09118Y

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EcMC² 350

Technology features

- Microprocessor controlled
- Built-in multiple redundant safety protection
- Software field upgradeable *(future proof)*
- BIT *(Built In self Test)*
- DC input automatic cut off to prevent deep discharge of vehicle battery
- SM Bus *(smart battery)* compatible
- AC and DC input protection by field re-settable circuit breakers

Materials

- Case: high impact polypropylene
- Colour: black
- Control panel: aluminium/ABC
- Cables: 105°C rated PVC

Built-in protection devices ensure safety in case of:

- Exposure to heat
- Exposure to direct sunlight for extended periods
- Short circuit
- Over voltage
- Under voltage
- Transient voltage spikes

Transportation and storage:

- For long term storage use a dry place at a temperature preferably not exceeding +50°C
- Short term storage at -40°C to +75°C is possible

Performance characteristics for Li-ion batteries

SAI 2590	5 charged in approx. 5 hours
SAI 2800	5 charged in approx. 5 hours
SALLY	5 charged in approx. 5 hours
PR4G military battery	BA684A-ALI142-ALI146 BA685A-ALI143
Etc... (capable of charging more than 50 battery types)	

Safety/Reliability standards

Information Technology Equipment	EN 60950-1
MTBF (MIL HDBK-217F GB)	40 000 h at 25°C
Operational ceiling	700 hPa

EMI standards

EMC emission	EN 61000-6 3 & 4 MIL-STD 461D RE102 Ground Army
EMC immunity	EN 61000-6 1 & 2 MIL-STD 461D RS103 Ground Army
RF emission	FCC 47 CFR Ch 1, Pt 15
Mains input connector	IEC 320/C

References

Charger unit	09119Z	NSN (To Be Advised)
Interface	GP16497	NSN (To Be Advised)
Cable DC/DC	GP16715	NSN (To Be Advised)
Cable AC/DC	GP16716	NSN (To Be Advised)
Case	GP16923	NSN (To Be Advised)

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