The EcMC2 250 is a state of the art two-channel, four-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
- Soldier portable
- Worldwide usage
- Quite or silent mode
- Intuitive plug-and-charge operation
- LED indication of charge status

**Key features**
- Automatic battery recognition
- Charges both channels simultaneously regardless of battery type or chemistry
- Automatic power sharing
- Conditioning charge for battery storage to 20% ± 10% on all channels for battery compliance to ICAO/UN Transport Regulations and IATA.
- On-board HMI
- Rugged construction for a long life of field operations
- Lightweight and compact
- Wide AC input, for worldwide functionality and charging
- 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:
  - Peace keeping
  - Law enforcement
  - Exercise and training
  - Combat

**Electrical characteristics**
- AC input voltage: 85 – 265 V (50-60 Hz, ± 5%)
- DC input voltage: 11 – 14 V and 19 – 32 V
- Output power: 250 W
- Charging voltage: 4 – 34 V
- Maximum output current: 10 A (per channel)

**Physical characteristics**
- Length: 410 mm
- Width/Height: 240 mm × 205 mm
- Typical weight: <9.0 kg (AC and DC cables included)
- Volume: 20.2 litres
- Environmental protection: IP 44 (open) IP67 (closed)
- Operating temperature range: -20°C to +60°C
- Storage temperature range: -40°C to +75°C
- Saft model / type reference

**References**
- Temperature: MIL-STD 810E 503.3
- Altitude: MIL-STD 810E 503.3
- 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 1779
- Saft part number: 09101F
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
- Please contact Saft for your specific application requirements.

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

Storage

- The storage area should be clean, cool (preferably not exceeding +50°C), dry and ventilated
- For short term storage, keep the above conditions with a temperature range not exceeding −40°C to +75°C.

Performance characteristics for Li-ion batteries

<table>
<thead>
<tr>
<th>Battery</th>
<th>Charge Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB 2590</td>
<td>2 charged in approx. 5 hours</td>
</tr>
<tr>
<td>BB 2800</td>
<td>2 charged in approx. 5 hours</td>
</tr>
<tr>
<td>Sally/Sophie/Mirabelle</td>
<td>2 charged in approx. 3 hours</td>
</tr>
<tr>
<td>BA 685 PR4G radio battery</td>
<td>2 charged in approx. 5 hours</td>
</tr>
<tr>
<td>BA 684 PR4G radio battery</td>
<td>2 charged in approx. 3 hours</td>
</tr>
</tbody>
</table>

[Capable of charging > 50 different battery types]

EMI Standards

<table>
<thead>
<tr>
<th>Emission/Certification</th>
<th>Standard Description</th>
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</thead>
<tbody>
<tr>
<td>EMC emission</td>
<td>EN 61000-6 3 &amp; 4 MIL-STD 461D RE102 Ground Army</td>
</tr>
<tr>
<td>EMC immunity</td>
<td>EN 61000-6 1 &amp; 2 MIL-STD 461D RS103 Ground Army</td>
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<tr>
<td>RF emission</td>
<td>FCC 47 CFR Ch 1, Pt 15</td>
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<tr>
<td>Mains input</td>
<td>IEC 320/C</td>
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</table>

Safety/Reliability standards

<table>
<thead>
<tr>
<th>Standard/Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Technology Equipment</td>
<td>EN 60950-1</td>
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<tr>
<td>MTBF [MIL HDBK-217F GB]</td>
<td>40 000 h at 25°C</td>
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<tr>
<td>Operational ceiling</td>
<td>700 hPa</td>
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Part number and accessory references

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>Charger unit</td>
<td>09120A</td>
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<tr>
<td>Interface</td>
<td>GP16497</td>
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<tr>
<td>Cable DC/DC</td>
<td>GP16715</td>
</tr>
<tr>
<td>Cable AC/DC</td>
<td>GP16716</td>
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