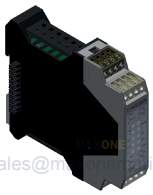
# Charger M H Power Supply and Battery Charger

## Product reference

| | |
|---|---|
| Part No. | 5100062-01A |
| Manufacturer | Consilium / Salwico |
| Model | Charger M H |



## Key product facts

01 · Operating voltage range
19-30 VDC

## Product overview

Power supply and battery-charging module for the TS1000 Backbone Bus. Use AGM batteries and an external NTC sensor; configure address, power channels and charge capacity exactly as documented. Dual-module redundancy requires the specified channel arrangement and one earth-supervision jumper removed. Physically disconnect batteries after more than one hour in standby. Retain the complete five-page original for DIP tables, wiring, indicators and mounting. The manufacturer states order number 5100062-01A; equivalence to reference 5100062-02 is unconfirmed. Historical standard references do not establish current certification.

## Technical specifications

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|---|---|---|---|
| Manufacturer Article Number | 5100062-01A | Redundant earth supervision | For the two-module redundant method, disable earth supervision on ONE Charger M by removing its PCB jumper |
| PSU input | 28 VDC | Battery capacity / SW2 | Poles 1/2 ON/ON: 0-12 Ah; OFF/ON: 12-24 Ah |
| Operating voltage range | 19-30 VDC | Forbidden SW2 settings | ON/OFF and OFF/OFF not allowed. Wrong charging setting can overcharge, undercharge or overload PSU |
| Current consumption (at 24 V, battery supply only) | 43 mA | Battery type | Valve-regulated lead-acid (AGM) batteries only |
| Max. output current | 8 A | NTC sensor location | External NTC on battery holder or as close as possible; NOT directly on battery |
| Cable terminals | 2.5 mm² | Charging temperature condition | External NTC adjusts charging; optimum battery performance specified between -5 °C and +40 °C |
| NTC resistor | 10 kΩ 2%, B=3977, 3×3 | Deep-discharge handling | Not designed to recover deeply discharged batteries; replace or use a separate charger designed for that purpose |
| GA input resistor | 10 kΩ | Low-battery output cutoff | With charging enabled and PSU1/2 power absent: below 21 VDC ±0.5 V shuts outputs off |
| Operating temperature range | -40 °C to +85 °C (Tx) | Standby / battery safety | Standby still draws approx.25 mA. After >1 hour, physically disconnect battery to prevent further deep discharge |
| Weight (with housing) | 140 g ± 5% | General Alarm (Morse) scope | 24 VDC GA input via hardware to internal BBI; cabinet-common BBI only, not between stretched bus sections |
| Spare part no. | 5100061-03A | Output capacity condition | Maximum power output depends on PSU capacity and Backbone Bus load |
| Manufacturer-listed system | TS1000 (2022 V T document) | NTC / GA indicators | NTC: green=overheat, yellow=cable break, off=OK. GA: green=general alarm active, off=OK |
| Address configuration | SW1 poles 1-7 set binary physical address; it must match system configuration | Communication / safe-state LEDs | COM green flashing: communication OK but unconfigured. PS yellow flashing + COM off: module not functional |
| Backbone power channels | SW1 pole 8: channel 1; pole 9: channel 2. ON deactivates, OFF activates | Wiring reference | Retain original p2 diagram for PSU1/2, mains/emergency monitors, power output, GA, battery and NTC terminals |
| Power output / SW1 pole 10 | ON: always active; set output to "not used" in configuration to avoid faults. OFF: programmable | Mounting | Mount on a horizontal 35 mm DIN rail |
| One / two-module setup | Single: 8+9 OFF. Dual: module 1 8 OFF/9 ON; module 2 8 ON/9 OFF | Dimensions | 99 mm high ×114 mm deep ×29 mm wide; original drawing also marks 23 mm subdimension |