

Model 9740 LA

10 A max out • 110/230 VAC input

- 3-step charge control with timer
- Charge current not affected by fluctuations in mains voltage
- Leads with battery clips
- Protected against reversed polarity and short circuit proof
- LED-indicator with three different colors
- Waterproof (IP67) version available

Notes:

Desktop unit

Heat-sink casing

Fixed cord

12, 24, 36 48V standard versions

Available:

-Waterproof (IP67) version

-120 VAC version

-Li-Ion and LiFePO4 versions



Available versions

12V / 10A

24V / 5A

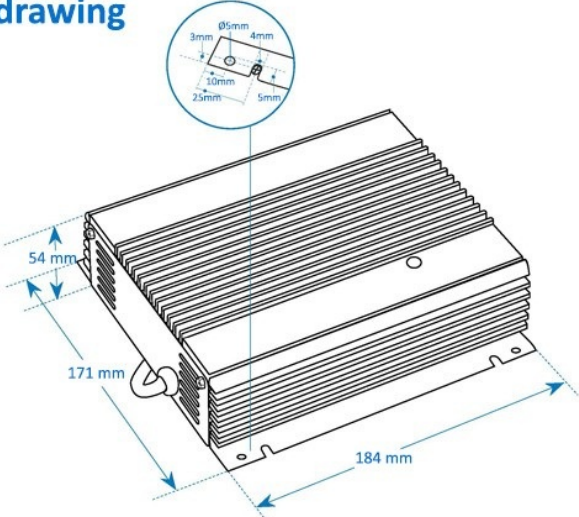
36V / 3,3A

48V / 2,5A

DATE 27.10.09

| Specifications: | VERSION | | | |
|--|--|-----------------------------------|-----------------------------------|-----------------------------------|
| | 12V | 24V | 36V | 48V |
| Input voltage: | 190 - 264V AC | 190 - 264V AC | 190 - 264V AC | 190 - 264V AC |
| Line frequency: | 47 - 63Hz | 47 - 63Hz | 47 - 63Hz | 47 - 63Hz |
| Charge control: | 3 step IUU | 3 step IUU | 3 step IUU | 3 step IUU |
| Charge voltage: | | | | |
| Cycle mode: | 14.7V | 29.4V | 44.1V | 58.8V |
| Standby mode: | 13.7V | 27.4V | 40.8V | 54.8V |
| Timer: | 4 hours ± 30min. | 4 hours ± 30min. | 4 hours ± 30min. | 4 hours ± 30min. |
| Charge current: | 10A +0/-10% | 5A +0/-10% | 3.3A +0/-10% | 2.5A +0/-10% |
| Leakage current from battery with mains switched off: | < 2.5mA 12V battery voltage | < 3.5mA 24V battery voltage | < 4.0mA 36V battery voltage | < 4.0mA 48V battery voltage |
| Ripple: | < 100mV p-p | < 100mV p-p | < 100mV p-p | < 100mV p-p |
| Efficiency (at 100% charge current) approx.: | > 83% | > 85% | > 85% | > 85% |
| Switch frequency approx.: | 63kHz | 63kHz | 63kHz | 63kHz |
| Input surge current limitation: | < 30A | < 30A | < 30A | < 30A |
| Protection: | Short circuit proof. / Against reversed polarity. | | | |
| Temperature range: | | | | |
| *Operating: | -25 to +40°C | | | |
| *Storage: | -25 to +85°C | | | |
| Safety: | EN 60335-2-29, EN 60601-1 * For 48V version under condition that the output voltage inaccessible! | | | |
| Insulation class: | Class I | | | |
| Insulation voltage: | | | | |
| Primary - ground: | 1500V AC (2200VDC) | | | |
| Primary - secondary: | 4000V AC (5700VDC) | | | |
| Secondary - ground: | 500V AC (710VDC) | | | |
| EMC standards: | EN 61000-6-3, EN 55014, EN 61000-6-1, EN 60601-1-2 | | | |
| Indication: | 3 colour LED Orange: Constant current mode Yellow: Constant voltage, timer mode Green: Constant voltage, standby mode | | | |
| Terminals: | Leads with battery clips | | | |
| IP-Grade: | 21 PCB with components are protected with Coating | | | |
| Dimensions (L x W x H): | 184 x 171 x 54mm | | | |
| Weight: | 1.5kg | | | |

Technical drawing



Charging method C

STEP 1 - BOOST CHARGE

To start a charge cycle, connect the charger to the mains.

The charger is in constant current mode, charging with the maximum current indicated on the charger, the LED-indication on the charger is ORANGE (or RED 9640).

This step allows rapid charging of your battery until the battery reaches typically 80 - 95% of its capacity.



STEP 2 – TIMER CHARGE

The charger is in constant voltage mode, charging with a decreasing current.

The LED-indication on the charger is YELLOW. The charger is now in timer mode indicated by the YELLOW LED and will remain in this mode until time interval is completed.

The battery is charged to its full capacity at the end of this step.



STEP 3 – FLOAT CHARGE

The LED-indication on the charger is GREEN and the battery is fully charged.

The charger is in standby mode. The charge voltage is at standby level which means that the charger can continue to be connected to the battery.

The charger will return to boost charging if the battery is used.

A load current equal to the constant current level will initiate a new charge cycle.

