



**Item no. 323/335**

Manufacturer's no. 9600000035

## Charger PerfectCharge MCA, 40 A

**DOMETIC**

### Information

|              |                       |
|--------------|-----------------------|
| Dimensions   | 209 x 75 x 303 mm     |
| Pack size    | 37.9 x 27.1 x 14.8 cm |
| Net weight   | 3.9 kg                |
| Gross weight | 3.9 kg                |

Starter batteries and supply batteries are designed for different tasks. To start the engine, starter batteries must initially supply a high current and then serve as an energy buffer with smaller partial cycles. Supply or onboard batteries, in contrast, are discharged at lower currents over longer periods of time and then charged again. This means they are subjected to considerably higher loads. These special features must be considered by the charging technology to protect the batteries from damage and ensure they have a long service life. The IUoU battery chargers use a unique six-stage charging cycle. They provide optimum charging for all gel, AGM and wet batteries because they charge quickly and gently at the same time.

The necessary charging voltage for lithium batteries with BMS (battery management system) can be set via DIP switches. This way, lithium batteries can be optimally charged with MCA chargers.

- Gentle charging of 24 V batteries with optimised 6-stage IUoU charging technology
- Simultaneous charging of two batteries plus the starter battery
- Very compact and lightweight design, easy installation

### Specifications

|                       |                 |
|-----------------------|-----------------|
| Connection            | 3 outputs       |
| Output voltage        | 24 V            |
| Operating temperature | -20 °C – +50 °C |
| Charging current      | 40 A            |
| Nominal voltage       | 110 V   230 V   |
| Type                  | MCA 2440        |

- Sleep mode for quiet charging at half the power – ideal at night or in parking spaces with low electrical circuit protection
- Comes as standard with a bus interface for smooth integration in existing bus systems
- Compatible with the Dometic MPC 01 battery controller for perfect power management
- Useful additions: remote control, Hella battery sensor, temperature sensor

6-stage IUoU charging characteristic

I-phase: at the beginning of the charging process, the empty battery is charged with constant current (100% charging current) until the battery voltage reaches the charging voltage.

Uo phase: the 3-stage absorption charging phase (Uo phase) begins, the duration of which depends on the battery. The voltage remains constant (Uo). In the first two minutes, the charge of the battery is determined. Then the main charging phase begins, during which the battery is fully charged. When the battery is fully charged or the charging current is below 6% of the nominal charging current for 15 minutes, the Uo phase is completed.

U phase: The charger switches to trickle charging. Conditioning: every 12 days the charger switches back to phase 1 to revive the battery and prevent sulphation.