



W = Width, D = Depth, H = Height



## MultiCharger 1203

The charger functions independently of the time-program control and is primarily designed for passenger cars. Features:

- Modern switch-mode charging electronics, which help to preserve the battery. Therefore, the charger can be permanently connected.
- The temperature-compensated charging voltage ensures that the battery will be fully charged in all conditions.
- LED indicator for charging mode and quick charging mode (green and red).
- If the battery is so heavily loaded during the trickle charging process that the battery voltage drops to below 13V, the charger automatically switches to full-power mode (quick charge mode).
- The battery has short-circuit protection and reverse-polarity protection. This requires the installation of the enclosed fuse.
- 230V recognition, which prevents the relay from staying switched on and discharging the battery when the charger is not in use.
- 2 relay-controlled outputs for engine and parking heaters which can be activated with a time-program controller (external signal).
- Will not damage sophisticated electronics.
- Compact dimensions.
- Protects the battery from degradation (sulphating) and extends the service life of the battery.
- Prevents the release of harmful gases (safety).

### Technical specifications

Rated power [W]	45
Charging current [A/V]	3/12
Operating temperature [°C]	-40/+40
Boost mode [V]	>14,7
Maintenance charging [V]	13,7
IP rating [IP]	44
W/H/D [mm]	70/80/45
Weight [gram]	252
Fuse [A]	5
Cable cross section [mm <sup>2</sup> ]	0,75
Certification - Safety	EN 50081-1, EN 50082-1 EN 60335-1, EN 60 335-2-29

### Item number

450009 Weight: 416gr. (Incl. cables)

Packaging: 8-pack.

### Part of

All DEFA WarmUp packages (Complete car heating).

### Use & Installation

MultiCharger 1203 can be used to charge all open or closed types of 12V lead/acid inclusive AGM and GEL batteries.

Please read and follow the enclosed installation guide.

DEFA AS is conforming to the requirements of both ISO 9001-2008, ISO 14001:2004 and OHSAS 18001:2007. In addition to this, our engine heaters and cables are conforming to the requirements of ISO/TS 16949:2002.