

➤ CHARGE BOOSTER

The sufficient and complete charging of the supply batteries of a yacht or a vehicle is usually not guaranteed with a conventional system. Especially in vehicles with intelligent alternators, the charging voltage is reduced after a short time and produces voltage peaks during braking. This is where the charging boosters come in: they are DC battery chargers with a 12 V or 24 V input and have the following advantages:

- Correct charging with a three-stage characteristic curve, better utilisation of the alternator power, thus fast and optimum charging of the supply batteries
- Effective even on short journeys
- Adjustable characteristic curves - suitable for lead/acid batteries, gel, AGM and lithium-ion batteries
- Stabilisation of a 12 V or 24 V vehicle electrical system for supplying sensitive devices
- Charge of a 24 V bow battery from a 12 V on-board system
- Charge of a 12 V battery from a 24 V on-board system
- Current limitation of the charging current, so that the maximum current can be adapted to existing cable cross-sections.
- Fanless operation for maximum comfort.
- Power supply mode - operation also possible without battery.
- Soft start to relieve the load on the V-belt during starting.
- P-BUS connection for system integration with a philippi system monitor.



Type	Order-No.:	Input-/Output Voltage	Charge Current
DCE 12/12-60	0 4612 1260	12 V / 12 V	60 A
DCE 24/12-60	0 4624 1260	24 V / 12 V	60 A
DCE 12/24-30	0 4612 2430	12 V / 24 V	30 A
DCE 24/24-30	0 4624 2430	24 V / 12 V	30 A

Technical Data:

Degree of protection	IP 22
Dimensions	236 x 180 x 96 mm
weight	2,2 kg
Connection	M 8
Input voltage	10 - 32 V DC
Efficiency	> 96%
Operating temperature	-20° to +60°C
Interface	P-BUS
Temperature sensor	Temp-AL (optional)

➤ SOLAR CHARGE CONTROLLER

The solar charge controllers with Maximum Power Point Tracking, MPPT for short, increase the efficiency of the solar panels. The operating point varies constantly depending on the external conditions (solar radiation and temperature) to which it must adapt (tracking).

They ensure optimal utilization:

Tracking efficiency and efficiency up to 99%.

4 stage charging curve for longer battery life.

8 predefined battery charging curves, suitable for all common battery systems. Fully configurable system.

Type	SCE 12/60	SCE 24/30	VT 65	VT 80
Order-No.:	0 4600 1260	0 4600 2430	7 0006 8065	7 0006 8080
Max. charge current	60 A	30 A	65 A	80 A
Nominal voltage battery	12 V	24 V	12 / 24 / 48 V	12 / 24 / 48 V
Solar panel voltage max.	45 V	45 V	150 V (75 V @ 12 V)	150 V (75 V @ 12 V)
max. power of the PV Module	800 W	800 W	1000 / 2000 / 4000 W	1250 / 2500 / 5000 W
Weight	2,2 kg	2,2 kg	5,2 kg	5,5 kg
Dimensions L x W x H	236 x 180 x 96 mm	236 x 180 x 96 mm	120 x 220 x 310 mm	120 x 220 x 350 mm
Return current			< 1 W in night mode	
Protection	IP 22	IP 22	IP 54	IP 54
Interface	P-BUS Interface	P-BUS Interface	Studer CAN-Bus Interface for remote panel RCC-02/-03	