

Specifications Mass battery chargers



	Mass 24/15-2	Mass 24/25-2	Mass 24/25-2 DNV	Mass 24/50-2
Product code	40020156	40020256	40720266	40020506
GENERAL SPECS				
Nominal output voltage	24 V	24 V	24 V	24 V
Total charge current	15 A at 28.5 V	25 A at 28.5 V	25 A at 28.5 V	50 A at 28.5 V
Number of battery outlets	2	2	2	2
Charge current second output	3 A	3 A	3 A	3 A
Recommended battery capacity	30-150 Ah	50-250 Ah	50-250 Ah	100-500 Ah
Nominal input voltage	230 V (180-265 V) - 50/60 Hz	230 V (180-265 V) - 50/60 Hz	230 V (180-265 V) - 50/60 Hz	230 V (180-265 V) - 50/60 Hz
Supplies your system without battery	yes	yes	yes	yes
Display/read-out	LED display	LED display	LED display	LED display
Dimensions, hxxwxd	325 x 220 x 111 mm 12.8 x 8.7 x 4.4 inch	325 x 220 x 111 mm 12.8 x 8.7 x 4.4 inch	365 x 220 x 111 mm 14.4 x 8.7 x 4.4 inch	340 x 261 x 130 mm 13.4 x 10.3 x 5.1 inch
Weight	3.3 kg / 7.3 lb	3.3 kg / 7.3 lb	3,5 kg / 7.7 lb	4.6 kg / 10.1 lb
Approvals	CE, ABYC A-31 / RRR, RS	CE, ABYC A-31 / RRR, RS	CE, ABYC A-31, DNV, RRR, RS	CE, ABYC A-31 / RRR, RS DNV pending
TECHNICAL SPECS				
Charge characteristic*	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
Charge voltage Bulk (25 °C)**	28.5 V (8 hours)	28.5 V (8 hours)	28.5 V (8 hours)	28.5 V (8 hours)
Charge voltage Absorption (25 °C)**	28.5 V (4 hours)	28.5 V (4 hours)	28.5 V (4 hours)	28.5 V (4 hours)
Charge voltage Float - wet (25 °C)**	26.5 V	26.5 V	26.5 V	26.5 V
Charge voltage Float - gel/AGM (25 °C)**	27.6 V	27.6 V	27.6 V	27.6 V
Temperature compensation	-60 mV/°C	-60 mV/°C	-60 mV/°C	-60 mV/°C
Voltage compensation	voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt
DC consumption	< 1 mA	< 1 mA	< 1 mA	< 1 mA
Full load consumption (230 V AC)	550 W	880 W	880 W	1800 W
Cos phi	> 0.95	> 0.95	> 0.95	> 0.95
Temperature range (ambient temp.)	-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power
Cooling	vario fan	vario fan	vario fan	vario fan
Sound level	< 48 dBA at 1 mtr	< 48 dBA at 1 mtr	< 48 dBA at 1 mtr	< 48 dBA at 1 mtr
Protection degree	IP23	IP23	IP23	IP23
Protections	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery
MasterBus compatible	yes	yes	yes	yes
CSI/DC alarm (Charger Status Interface) <i>Alarm on all errors or on DC errors only</i>	integrated in the battery charger as standard	integrated in the battery charger as standard	integrated in the battery charger as standard	integrated in the battery charger as standard

OPTIONS				
	MasterView Read-out 77010050	option	option	option
<i>Remote panel for reading the charge status of your battery charger, including error notifications.</i>				
	MasterView Easy 77010305	option	option	option
<i>Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting.</i>				
	MasterShunt 77020100	option	option	option
<i>MasterBus integrated battery monitor, with detailed information on the status of your batteries for an optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage.</i>				
	DC Distribution 77020200	option	option	option
<i>Smallest distribution model available. It connects up to four DC devices to the DC groups, such as a battery charger, inverter, alternators and solar panels. With the included plug & play cable it can be easily connected to the MasterBus network.</i>				
	MasterBus USB Interface 77030100	option	option	option
<i>Communication port between MasterBus and the USB port of your PC; enables reading and configuration of your MasterBus system on the PC when combined with MasterAdjust software (free to download).</i>				
MasterVision panels				
	C3-RS 70403040	option	option	option
<i>Remote monitor for battery chargers, with a regulator for reducing grid power consumption.</i>				
	GMDSS remote panel 70400050	option	option	option
<i>Remote monitoring for Mass battery chargers, with GMDSS system monitoring functions. Battery voltage and current are displayed on the digital panel.</i>				



Mass 24/75 40020756	Mass 24/100 40021006	Mass 24/100-3ph 40031006	Mass 48/25 40040256	Mass 48/50 40040506
24 V	24 V	24 V	48 V	48 V
75 A at 28.5 V	100 A at 28.5 V	100 A at 28.5 V	25 A at 57 V	50 A at 57 V
1	1	1	1	1
n.a.	n.a.	n.a.	n.a.	n.a.
150-750 Ah	200-1000 Ah	200-1000 Ah	100-500 Ah	100-500 Ah
230 V (180-265 V) - 50/60 Hz	230 V (180-265 V) - 50/60 Hz	3x400 V (360-485 V)	230 V (180-265 V) - 50/60 Hz	230 V (180-265 V) - 50/60 Hz
yes	yes	yes	yes	yes
LED display	LED display	LED display	LED display	LED display
420 x 318 x 130 mm 16.5 x 12.5 x 5.1 inch	420 x 318 x 130 mm 16.5 x 12.5 x 5.1 inch	420 x 318 x 130 mm 16.5 x 12.5 x 5.1 inch	420 x 318 x 130 mm 16.5 x 12.5 x 5.1 inch	420 x 318 x 130 mm 16.5 x 12.5 x 5.1 inch
7.7 kg / 17 lb	7.7 kg / 17 lb	7.7 kg / 17 lb	4.6 kg / 10.1 lb	7.7 kg / 17 lb
CE, ABYC A-31, RRR, RS, Lloyds, DNV	CE, ABYC A-31, RRR, RS, Lloyds, DNV	CE, ABYC A-31 / RRR, RS	CE, ABYC A-31 / RRR, RS	CE, ABYC A-31 / RRR, RS
IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion	IUoUo, automatic / 3-step+ for gel/AGM/wet/Lithium Ion
28.5 V (8 hours)	28.5 V (8 hours)	28.5 V (8 hours)	57 V (8 hours)	57 V (8 hours)
28.5 V (4 hours)	28.5 V (4 hours)	28.5 V (4 hours)	57 V (4 hours)	57 V (4 hours)
26.5 V	26.5 V	26.5 V	53 V	53 V
27.6 V	27.6 V	27.6 V	55.2 V	55.2 V
-60 mV/°C	-60 mV/°C	-60 mV/°C	-120 mV/°C	-120 mV/°C
voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt	voltage drop compensation in DC cables up to 3 Volt
< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA
2600 W	3500 W	3500 W	1800 W	3500 W
> 0.95	> 0.95	> 0.95	> 0.95	> 0.95
-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power	-25 °C to 80 °C; > 45 °C derating power
vario fan	vario fan	vario fan	vario fan	vario fan
< 48 dBA at 1 mtr	< 48 dBA at 1 mtr	< 48 dBA at 1 mtr	< 48 dBA at 1 mtr	< 48 dBA at 1 mtr
IP23	IP23	IP23	IP23	IP23
over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery	over temperature, over load, short circuit, high battery, low battery
yes	yes	yes	yes	yes
integrated in the battery charger as standard	integrated in the battery charger as standard	integrated in the battery charger as standard	integrated in the battery charger as standard	integrated in the battery charger as standard
option	option	option	option	option
option	option	option	option	option
option	option	option	option	option
option	option	option	option	option
option	option	option	option	option
option	option	option	option	option
option	option	option	option	option

* The charge characteristic can be set to your requirements.
 ** The battery charge voltage can sometimes be specified at 20 °C, so take temperature compensation into account.