

Specifications Mass battery chargers



Mass

Mass

Mass

Mass

24/15-2

24/25-2

24/25-2 DNV

24/50-2

Product code

40020156

40020256

40720266

40020506







GENERAL SPECIFICATIONS

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			
Supplies your system without battery	yes	yes	yes	yes
Display/read-out	LED display	LED display	LED display	LED display
Dimensions, hxxwxd	325x220x111 mm 12.8x8.7x4.4 inch	325x220x111 mm 12.8x8.7x4.4 inch	365x220x111 mm 14.4x8.7x4.4 inch	340x261x130 mm 13.4x10.3x5.1 inch
Weight	3.3 kg / 7.3 lbs	3.3 kg / 7.3 lbs	3.5 kg / 7.7 lbs	4.6 kg / 10.1 lbs
Approvals*	CE, E-mark, ABYC A-31 / RRR, RS			

TECHNICAL SPECIFICATIONS

Charge characteristic**	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			
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			
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			
MasterBus compatible	yes	yes	yes	yes
CSI/DC alarm (Charger Status Interface)	integrated in the battery charger as standard			

OPTIONS

MasterView Read-out (product code 77010050)		Remote panel for reading the charge status of your battery charger, including error notifications		
MasterView Easy (product code 77010305)		Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting		
MasterShunt (product code 77020100)		MasterBus integrated battery monitor, with detailed information on the status of your batteries for a optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage		
MasterBus USB Interface (product code 77030100)		Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system on the PC when combined with MasterView System software.		
MasterVision panels	Model C3-RS (product code 70403040)		Masterlink MICC (product code 70403105)	

* Check our website for the certificates per model.

** The charge characteristic can be set to your requirements.

*** The battery charge current can sometimes be specified at 20 °C, so take temperature compensation into account.

**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
I	I	I	I	I
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 ————		3x400 V (360-485 V)	———— 230 V (180-250 V) – 50/60 Hz ————	
yes	yes	yes	yes	yes
LED display	LED display	LED display	LED display	LED display
420x318x130 mm	420x318x130 mm	420x318x130 mm	420x318x130 mm	420x318x130 mm
16.5x12.5x5.1 inch	16.5x12.5x5.1 inch	16.5x12.5x5.1 inch	16.5x12.5x5.1 inch	16.5x12.5x5.1 inch
7.7 kg / 17 lbs	7.7 kg / 17 lbs	7.7 kg / 17 lbs	4.6 kg / 10.1 lbs	7.7 kg / 17 lbs
CE, E-mark, ABYC A-31, RRR, RS, Lloyds, DNV	CE, E-mark, ABYC A-31, RRR, RS, Lloyds, DNV	CE, E-mark, ABYC A-31, RRR, RS	CE, E-mark, ABYC A-31, RRR, RS	CE, E-mark, ABYC A-31, RRR, RS

———— 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 ————				
< 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 ————				
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 ————				
yes	yes	yes	yes	yes
———— integrated in the battery charger as standard ————				

Remote panel for reading the charge status of your battery charger, including error notifications.

Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting.

MasterBus integrated battery monitor, with detailed information on the status of your batteries for a optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage.

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 MasterView System software (free to download).

go to www.mastervolt.com/chargers for an extended overview of the MasterVision panels; QRS232 communication connection for all models.