

Batteries



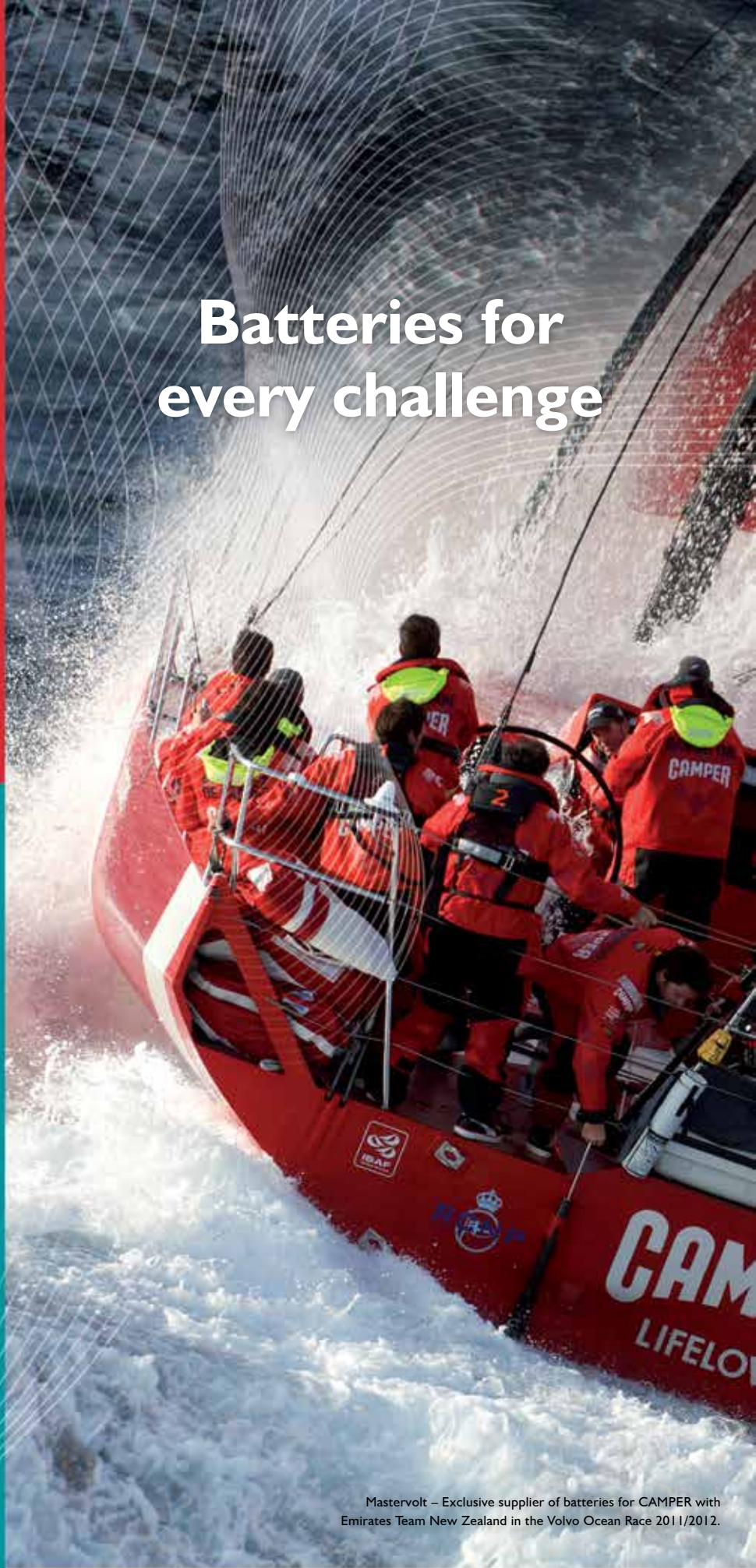
Available in AGM, gel
and Lithium Ion

Safe - no degassing

Maintenance-free

Easy to install

Batteries for every challenge



Mastervolt – Exclusive supplier of batteries for CAMPER with
Emirates Team New Zealand in the Volvo Ocean Race 2011/2012.

MASTERVOLT
THE POWER TO BE INDEPENDENT



Always energy left

Mastervolt makes selecting the right battery easy. Whether you choose a low priced battery such as the AGM or an innovative and technologically advanced Lithium Ion battery, Mastervolt offers you the right solution for the power you expect.

To make the choice even simpler, Mastervolt has divided its entire battery range of 32 types into six series and four different battery technologies. Each series has specific benefits as well as variations in price, capacity, dimensions, volume and lifespan.

All Mastervolt batteries offer you these advantages:

- Maintenance-free.
- Safe - no degassing.
- Easy to install.
- Designed for cyclic use (charge/discharge).
- Two year warranty.

Issues to take into account:

- Determining the correct battery capacity for your new battery/batteries is very important. For support and more information see www.mastervolt.com/batteries.
- Choosing the right battery charger lengthens the lifespan of your batteries considerably. For more information see www.mastervolt.com/chargers. Mastervolt's modern 3-step+ charge technology charges your batteries safely and quickly.
- A battery monitor is the best way to make the most of your batteries. Go to www.mastervolt.com/batterymonitor for more information.

Reinforced batteries

All Mastervolt batteries are equipped with shock-proof positive and negative battery plates with rubber separation, while the electrolyte is absorbed in gel or glass fibre (AGM). A high-grade lead/calcium compound guarantees you a constant capacity and minimum self-discharging. Mastervolt has the right battery for every application.

More information?

Contact your nearest dealer or go to www.mastervolt.com/batteries

Which battery is best for your application?

	traditional open batteries	① MLI Lithium Ion	② MVG gel semi-traction	③ MVSV 2 V gel traction	④ AGM semi-traction
Maintenance-free	-	++++	++++	++++	++++
Gas formation during charging	+	+++++	+++	+++	+++
Self discharge while inactive	-	+++	++++	++++	+++
Lifespan with complete discharge	+	+++++	+++	++++	++
Lifespan with limited discharge	++	+++++	++++	++++	+++
Sensitivity to excessive charge voltage	++	+++++	+++	++++	++
Suitable for selection of battery bank with high capacity	+	++++	+++	++++	++
Suitable for E-propulsion	+	+++++	+++	++++	++++
Starting motors	++	++++	+++	++	++++
Shock-resistance	+	++++	++++	++++	++++
Number of charge/discharge cycles	+	+++++	+++	++++	++
Temperature-resistance	+	++++	++++	++++	++
Installation/angle of inclination	-	++++	++++	++++	++++
Return on investment with limited use	+	+++	+++	++++	+++
Return on investment with intensive use	+	+++++	+++	++++	++
Product warranty	± 1 year	2 year	2 year	7 year	2 year
Worldwide service	+	++++	++++	++++	++++

+++++ = excellent ++++ = very good +++ = good ++ = adequate + = inadequate - = poor

① Lithium Ion batteries

Lithium ion batteries have a high energy density and are perfect for cyclic applications. They offer savings of up to 70% in volume and weight compared to traditional lead-acid batteries, with three times as many charging cycles (2000 full cycles). Another major benefit of the Mastervolt Li-ion battery is that it is equipped with a Battery Management System (BMS), which automatically compensates for any imbalance between the cells. This guarantees you a constant high capacity and longer battery lifespan. The Lithium Ion Ultra series includes integrated battery monitoring.

② Gel batteries

In gel batteries, the electrolyte is absorbed by a gel. This type of battery is entirely maintenance free and has no gas formation with normal use. As no extra ventilation is required gel batteries can be installed anywhere. They are ideal as service battery and for cyclical use, and can be charged very quickly.

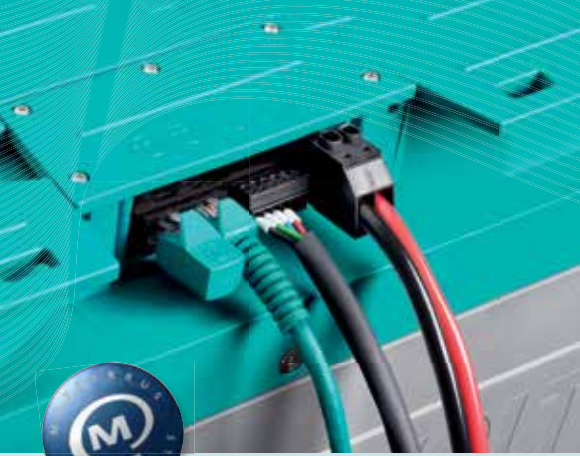
③ Traction batteries

This robust gel battery is designed for regular and deep discharging (1000 full cycles), and is ideal for large systems that require intensive use and a very long lifespan.

④ AGM batteries

In AGM batteries, the electrolyte (mixture of water and sulphuric acid) is largely absorbed in glass fibre. This type of battery is entirely maintenance free and there is no gas formation with normal use. Not requiring any ventilation, these batteries can be installed anywhere. Their construction gives a very fast discharge at very high currents so AGM batteries are ideal for systems that require high currents (for instance when starting an engine). The battery poles can be unscrewed and this type of battery can be combined with every standard battery terminal.





- Highly advanced technology.
- Multifunctional battery of 2.5 kWh or 5 kWh.
- Saves up to 70% in space and weight.
- Three times the lifespan of traditional batteries (2000 cycles).
- Ultra-fast charging and discharging.
- High efficiency.
- MasterBus communication with every Mastervolt battery charger.
- Integrated Battery Management System (BMS).
- Series balancing technology optimizes string connection.
- Safest Lithium Ion technology available.
- Integrated battery monitoring.
- Two year warranty.

Lithium Ion Ultra

Having perfected the legendary Lithium Ion battery in a few key areas, Mastervolt has developed an unrivalled 2500 or 5000 Wh powerhouse. The MLI Ultra has an ultra-long lifespan that offers over 2000 cycles; a recharge time of less than an hour; active cell balancing for efficient and safe use of the Li-ion cells; and integrated battery monitoring to further simplify your system. What's more, the Ultra communicates directly with your Mastervolt battery charger via MasterBus to ensure the best possible recharging. Add in the fact that it takes up 70% less space and weight compared to lead acid batteries, and you'll see why this battery is the best choice.



	MLI Ultra 12/2500	MLI Ultra 12/5000	MLI Ultra 24/5000
Product code	66012500	66015000	66025000
Nom. battery voltage	13.25 V	13.25 V	26.5 V
Battery capacity range	180 Ah	360 Ah	180 Ah
Nom. battery power	2500 Wh	5000 Wh	5000 Wh
Technology	LiFePO4	LiFePO4	LiFePO4
Battery monitoring	integrated	integrated	integrated
Battery terminals	M8	M8	M8
Parallel connection	yes, unlimited	yes, unlimited	yes, unlimited
Series connection	yes, up to 10 batteries (series balancing up to 2 batteries)		
Switch off relais controls	integrated	integrated	integrated
MasterBus compatible	yes	yes	yes
Mandatory safety relay	yes, code 79007700	yes, code 79007700	yes, code 79007702
Max. outer dimensions, l x w x h	339x197x355 mm	622x197x355 mm	622x197x355 mm
(incl. terminals/grip handles)	13.3x7.8x14 inches	24.5x7.8x14 inches	24.5x7.8x14 inches
Weight	31 kg / 68.3 lbs	58 kg / 127.9 lbs	58 kg / 127.9 lbs





Safe operation

The Mastervolt Li-ion battery is equipped with an integrated Battery Management System with active cell balancing. Ensuring that the available energy is automatically divided between cells guarantees efficient and safe functioning of the battery.

Weight reduction

As speed and performance are crucial aspects, a Lithium Ion battery – which takes up 70% less weight than similar lead acid batteries – offers considerable benefits. A vessel or vehicle with a capacity of 20 kWh on board, can easily save up to 500 kg and achieve a substantially better performance.



Superior performance

Mastervolt Lithium Ion batteries have a lifespan of over 2000 cycles at a depth of discharge (DOD) of 80%. This is three times longer than lead acid batteries thanks to features such as battery management, the almost complete absence of self discharge and the minimal build-up of the infamous 'memory effect'.

Large battery banks

The Lithium Ion Ultra batteries are ideal for electric and hybrid applications, and can be connected in parallel unlimited. The built-in common-rail technology offers an easy series connection of multiple batteries.

Easy installation

The elegant design of the Li-ion Ultra in the characteristic Mastervolt colours includes two integrated handles with a recess for the correct and practical installation of the cables. As the battery poles are easily accessible and completely protected, extra isolation covers are not needed.



MVG gel series

- Perfect service battery for medium and large 12 V and 24 V systems.
- Extremely long lifespan.
- No gas formation with normal use.
- Fast recharge, high charge current possible.
- For intensive cycle use with a high number of charge/discharge cycles.
- Very low self discharge.
- High return on investment.
- Two year warranty.



	MVG 12/25	MVG 12/55	MVG 12/85
Product code	64000250	64000550	64000850
Nominal voltage	12 V	12 V	12 V
Capacity C20*	25 Ah	55 Ah	85 Ah
CCA to DIN in amps	110 A	230 A	270 A
CCA to SAE in amps	175 A	380 A	450 A
Max. outer dimensions (incl. terminals and grip handles), lxwxh in mm/inch	167x176x126 / 6.6x6.9x5	261x136x230 / 10.3x5.4x9	330x171x236 / 13x6.7x9.3
Weight	9.6 kg / 21.2 lbs	19 kg / 41.9 lbs	32.6 kg / 71.9 lbs

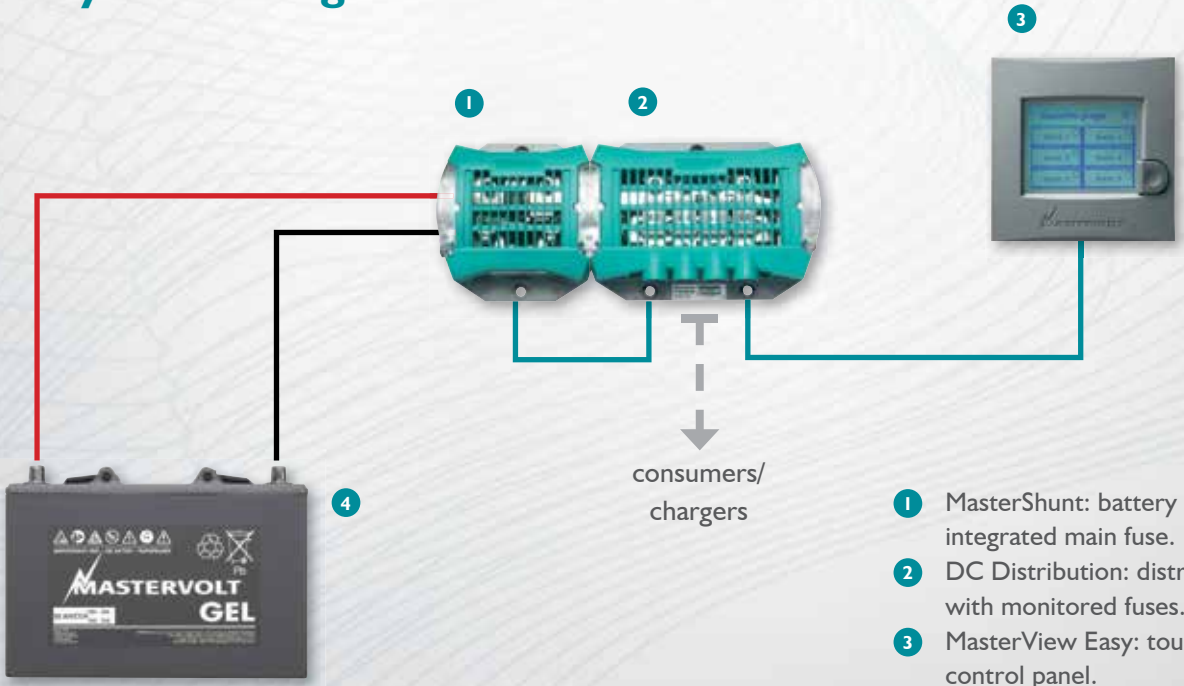


	MVG 12/120	MVG 12/140	MVG 12/200
Product code	64001200	64001400	64002000
Nominal voltage	12 V	12 V	12 V
Capacity C20*	120 Ah	140 Ah	200 Ah
CCA to DIN in amps	450 A	540 A	630 A
CCA to SAE in amps	760 A	920 A	1100 A
Max. outer dimensions (incl. terminals and grip handles), lxwxh in mm/inch	513x189x223 / 20.2x7.4x8.8	513x223x223 / 20.2x8.8x8.8	518x274x238 / 20.4x10.8x9.4
Weight	41 kg / 90.4 lbs	49 kg / 108 lbs	70 kg / 154.3 lbs

* C20 = battery capacity at a discharge time of 20 hours, till 10.5 V.



Optimal system integration



- 1 MasterShunt: battery monitor with integrated main fuse.
- 2 DC Distribution: distribution box with monitored fuses.
- 3 MasterView Easy: touch screen control panel.
- 4 Service battery.



MVSV 2 V gel series



MVSV 280

Product code	68000280
Nominal voltage	2 V
Capacity C10*	280 Ah
Maximum outer dimensions (incl. terminals and grip handles), l x w x h in mm/inch	126x208x399 / 5x8.2x15.7
Weight	23 kg / 50.7 lbs

- Long lifespan.
- Many charging and discharging cycles.
- Charges quickly.
- Extremely sustainable battery for large installations.
- Robust build for longer lifespan.
- Deep discharging without problems.
- Can be installed horizontally or vertically.
- Seven-year warranty (pro rata).



MVSV 420

MVSV 500

Product code	68000420	68000500
Nominal voltage	2 V	2 V
Capacity C10*	420 Ah	500 Ah
Maximum outer dimensions (incl. terminals and grip handles), l x w x h in mm/inch	126x208x515 / 5x8.2x20.3	147x208x515 / 5.8x8.2x20.3
Weight	30 kg / 66.1 lbs	35 kg / 77.2 lbs

* C10 = battery capacity at a discharge time of 10 hours, till 1.80 V per cell.

**MVSV 580****MVSV 750****MVSV 1000****MVSV 1250**

Product code	68000580	68000750	68001000	68001250
Nominal voltage	2 V	2 V	2 V	2 V
Capacity C10*	580 Ah	750 Ah	1000 Ah	1250 Ah
Maximum outer dimensions (incl. terminals and grip handles), lxwxh in mm/inch	168x208x515 / 6.6x8.2x20.3	147x208x690 / 5.8x8.2x27.2	212x193x690 / 8.3x7.6x27.2	212x235x690 / 8.3x9.3x27.2
Weight	39 kg / 86 lbs	49 kg / 108 lbs	66 kg / 146 lbs	80 kg / 176 lbs

**MVSV 1500****MVSV 1650****MVSV 2200****MVSV 2700**

Product code	68001500	68001651	68002200	68002700
Nominal voltage	2 V	2 V	2 V	2 V
Capacity C10*	1500 Ah	1650 Ah	2200 Ah	2700 Ah
Maximum outer dimensions (incl. terminals and grip handles), lxwxh in mm/inch	212x277x690 / 8.3x10.9x27.2	211x276x762 / 8.3x10.9x30	216x400x816 / 8.5x15.7x32.1	214x489x816 / 8.4x19.3x32.1
Weight	95 kg / 209 lbs	115 kg / 254 lbs	160 kg / 353 lbs	198 kg / 437 lbs

* C10 = battery capacity at a discharge time of 10 hours, till 1.80 V per cell.



AGM series



AGM 12/55 (group 24)

Product code	62000550
Nominal voltage	12 V
Capacity C20*	55 Ah
CCA to DIN	300 A
CCA to SAE	480 A
Max. outer dimensions (incl. terminals and grip handles), lxbxh in mm/inch	257x132x207 / 10.1x5.2x8.2
Weight	17 kg / 37.5 lbs



AGM 12/70 (group 27)

Product code	62000700	62000900
Nominal voltage	12 V	12 V
Capacity C20*	70 Ah	90 Ah
CCA to DIN	385 A	535 A
CCA to SAE	615 A	850 A
Max. outer dimensions (incl. terminals and grip handles), lxbxh in mm/inch	348x167x183 / 13.7x6.6x7.2	330x173x237 / 13x6.8x9.3
Weight	21 kg / 46 lbs	28 kg / 62 lbs



AGM 12/130

AGM 12/160 (group 4D)

Product code	62001300	62001600
Nominal voltage	12 V	12 V
Capacity C20*	130 Ah	160 Ah
CCA to DIN	585 A	630 A
CCA to SAE	935 A	1000 A
Max. outer dimensions (incl. terminals and grip handles), lxbxh in mm/inch	410x177x228 / 16.1x7x9	485x170x245 / 19.1x6.7x9.6
Weight	37.6 kg / 83 lbs	42.3 kg / 93 lbs



AGM 12/225 (group 8D)

AGM 12/270 (group Super 8D)

Product code	62002250	62002700
Nominal voltage	12 V	12 V
Capacity C20*	225 Ah	270 Ah
CCA to DIN	815 A	1000 A
CCA to SAE	1300 A	1600 A
Max. outer dimensions (incl. terminals and grip handles), lxbxh in mm/inch	522x240x241 / 20.6x9.4x9.5	522x268x243 / 20.6x10.6x9.6
Weight	63.5 kg / 140 lbs	73 kg / 161 lbs

- Excellent starter function.
- Perfect upgrade for wet lead acid batteries.
- Same initial power surge in an AGM 12/90 Ah as 180 Ah wet lead-acid battery.
- Glass-fibre technology ensures low internal resistance.
- Use of thicker plates extends lifespan.
- Also for medium cyclical use.
- Two-year warranty.

* C20 = battery capacity at a discharge time of 20 hours, till 1.75 V per cell.

AGM SlimLine series



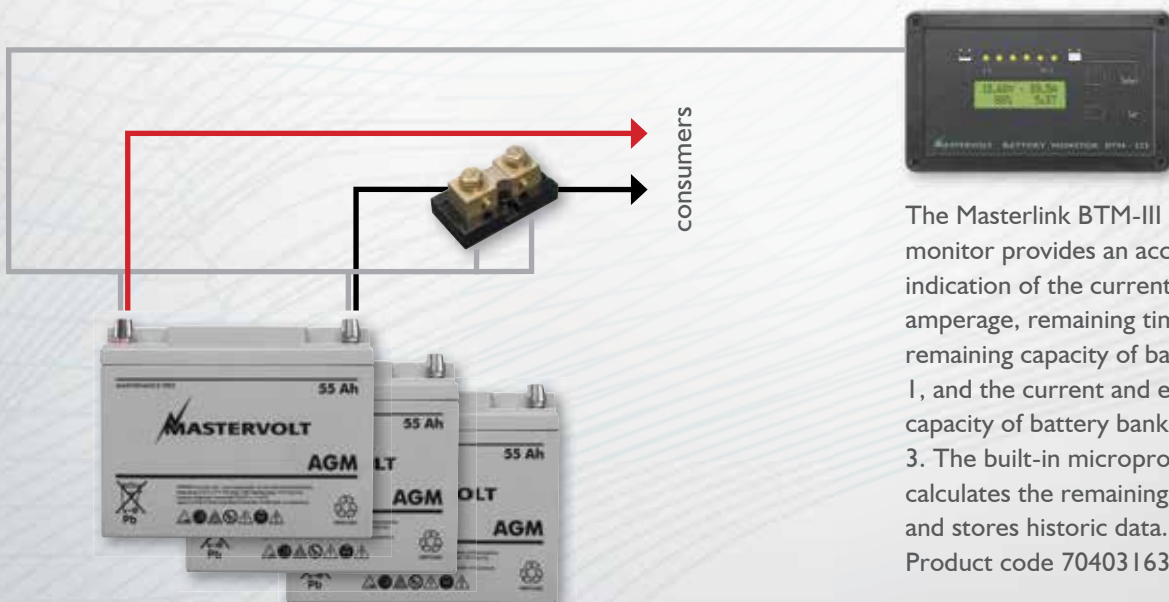
- Ideal universal battery; also for starter functions.
- Compressed AGM technology.
- Saves up to 15% in volume.
- Saves up to 15% in weight.
- Miniscule footprint; 2x 185 Ah for a 200 Ah battery footprint.
- Two-year warranty.



	AGM-SL 12/150	AGM-SL 12/185
Product code	63001500	63001850
Nominal voltage	12 V	12 V
Capacity C20*	150 Ah	185 Ah
CCA to DIN	610 A	750 A
CCA to SAE	1020 A	1250 A
Max. outer dimensions (incl. terminals and grip handles),		
lxbxh in mm/inch	560x110x280 / 22x4.3x11	560x126x280 / 22x5x11
Weight	40.5 kg / 89 lbs	51.2 kg / 113 lbs

* C20 = battery capacity at a discharge time of 20 hours, till 1.75 V per cell.

Get the most out of your batteries with a battery monitor



The Masterlink BTM-III battery monitor provides an accurate indication of the current, amperage, remaining time and remaining capacity of battery bank 1, and the current and estimated capacity of battery banks 2 and 3. The built-in microprocessor calculates the remaining capacity and stores historic data. Product code 70403163.

AGM 6 Volt series



AGM 6/260

Product code	61002600
Nominal voltage	6 V
Capacity C20*	260 Ah
Max. outer dimensions (incl. terminals and grip handles), lxbxh in mm/inch	295x180x298 / 11.6x7.1x11.7
Weight	35.3 kg / 77.8 lbs



AGM 6/400

Product code	61004000
Nominal voltage	6 V
Capacity C20*	400 Ah
Max. outer dimensions (incl. terminals and grip handles), lxbxh in mm/inch	295x180x428 / 11.6x7.1x16.9
Weight	53 kg / 116.8 lbs

* C20 = battery capacity at a discharge time of 20 hours, till 5.25 V.

- Ideal solution for cyclic applications such as electric propulsion, wheelchairs, golf carts, etc.
- Easy configuration of 12/24/48 V battery terminals, with high capacity.
- Double pole for easy installation.
- No gas formation with normal use.
- Two-year warranty.

Subject to change.

For more information, go to www.mastervolt.com/batteries

