

Durable

AGM Batteries

These are the most economical, maintenance-free batteries designed for long life. WhisperPower AGM batteries are based on VRLA technology (Valve Regulated Lead Acid), meaning they require little ventilation, do not have to be positioned upright and do not require any maintenance.



Applications

- Starting main and auxiliary engines
- Powering DC appliances
- Power supply for entire DC installation
- Back-up battery for vital functions such as radios/transmitters
- Suitable for medium sized inverters

General guidelines

- Charge according to three step process (IUoUo)
- Keep battery connected to the charger even when not in use. When not in use, but disconnect the DC cables in case of extended storage periods (after fully charging)
- Connect the battery sensor, supplied with you WhisperPower battery charger, to the battery, this will adapt the charge voltage level during fluctuation temperature circumstances



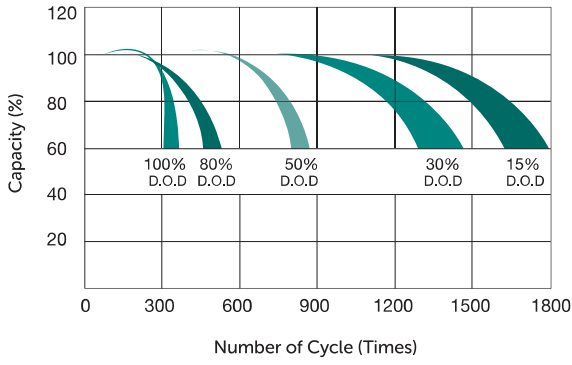
Battery terminals (optional)



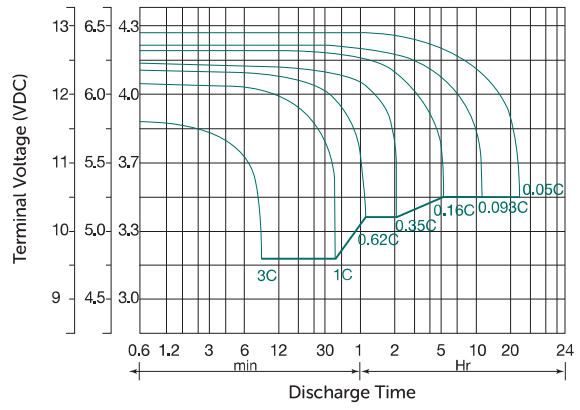
Adapter set M6 < 100 Ah Art. Nr. 40290097
Adapter set M8 > 100 Ah Art. Nr. 40290099



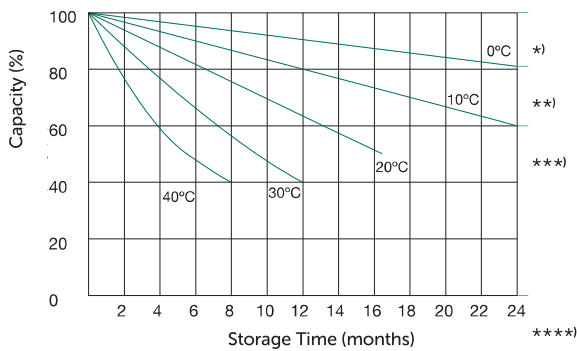
Discharge effect on battery life



Discharge curves



Storage effect



*) Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

***) Supplementary charge required before use

This supplementary charge will help to recover the capacity and should be made as early as possible

****) Supplementary charge may often fail to recover the capacity.

The battery should never be left standing till this state is reached

*****) Supplementary charge and storage guidelines

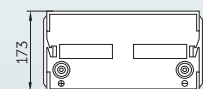
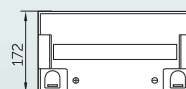
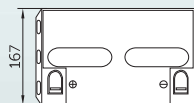
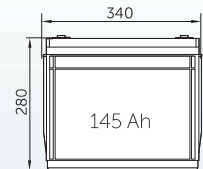
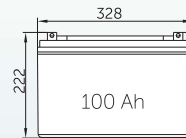
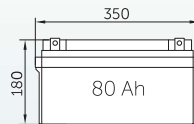
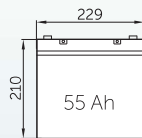


AGM Power Series



	12 VDC 55 Ah	12 VDC 80 Ah	12 VDC 100 Ah	12 VDC 145 Ah
Article Number	40290060	40290061	40290031	40290062
TECHNICAL SPECIFICATIONS				
Nominal capacity	55 Ah	80 Ah	100 Ah	145 Ah
C10*1 or C20	C10	C10	C10	C10
Nominal voltage	12 VDC	12 VDC	12 VDC	12 VDC
Type	Deep discharge Absorbed Glass Mat battery with potential 10 year life span on float voltage, specifically designed for intensive cyclic use. Cyclic life 30 % longer thanks to strong grid and a specific paste composition. Suitable for marine, mobile and solar energy system and as a starter battery			
Weight ± 10 %	18 kg	24 kg	30 kg	44 kg
Dimensions (W x D x H) in mm (excl. poles)	229 x 138 x 210	350 x 167 x 180	328 x 172 x 222	340 x 173 x 280
Terminal type	M6 stainless steel	M6 stainless steel	M8 stainless steel	M8 stainless steel
Number of cells	6	6	6	6
CHARGE / DISCHARGE PARAMETERS				
Constant charge voltage (IU, float)	13.60 - 13.80 VDC at 25°C	13.60 - 13.80 VDC at 25°C	13.60 - 13.80 VDC at 25°C	13.60 - 13.80 VDC at 25°C
Cyclic charge voltage (IIU, absorption)	14.25 - 14.60 VDC at 25°C	14.25 - 14.60 VDC at 25°C	14.25 - 14.60 VDC at 25°C	14.25 - 14.60 VDC at 25°C
Maximum charge current	16.5 A	24 A	30 A	43.5 A
Temperature ratio	-4 mVDC / cel / °C	-4 mVDC / cel / °C	-4 mVDC / cel / °C	-4 mVDC / cel / °C
Discharge voltage	1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C	1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C	1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C	1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C
Full discharge (100 % DOD)	1.65 VDC at (A) ≥ 1.0°C	1.65 VDC at (A) ≥ 1.0°C	1.65 VDC at (A) ≥ 1.0°C	1.65 VDC at (A) ≥ 1.0°C
NOMINAL CAPACITY AT 25°C				
	UP TO 1.75 VDC/CEL	UP TO 1.75 VDC/CEL	UP TO 1.75 VDC/CEL	UP TO 1.80 VDC/CEL
20 hours discharge	58.6 Ah	85.3 Ah	104 Ah	167 Ah
10 hours discharge	55 Ah	80 Ah	100 Ah	145 Ah
5 hours discharge	44.5 Ah	65 Ah	89 Ah	131 Ah
Peukert Coefficient	1.21 < P < 1.24	1.21 < P < 1.24	1.21 < P < 1.24	1.21 < P < 1.24
Usage at 25 A discharge	92 min.	146 min.	190 min.	305 min.
Self discharge	Less than 3 % per month at 25°C			
Storage time	AGM batteries can be stored for up to 6 months at 25°C, recommended to charge before use			
BATTERY PARAMETERS				
Inrush Current at 25°C (5 seconds)	550 A	800 A	1000 A	1450 A
Cyclic life at 80 % discharge	400	400	400	400
Internal resistance (approx.)	6 mΩ	5.5 mΩ	5 mΩ	4.5 mΩ

Dimensions





12 VDC 165 Ah	12 VDC 200 Ah	12 VDC 260 Ah
40290033	40290063	40290064
165 Ah	200 Ah	260 Ah
C20	C10	C10
12 VDC	12 VDC	12 VDC
47 kg	60 kg	74 kg
483 x 170 x 240	522 x 240 x 219	520 x 268 x 220
M8 stainless steel	M8 stainless steel	M8 stainless steel
6	6	6
13.60 - 13.80 VDC at 25°C	13.60 - 13.80 VDC at 25°C	13.60 - 13.80 VDC at 25°C
14.25 - 14.60 VDC at 25°C	14.25 - 14.60 VDC at 25°C	14.25 - 14.60 VDC at 25°C
49.5 A	60 A	78 A
-4 mVDC / cel / °C	-4 mVDC / cel / °C	-4 mVDC / cel / °C
1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C	1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C	1.75 VDC at (A) ≤ 0.2°C 1.70 VDC at 0.2°C (A) ≤ 1.0°C
1.65 VDC at (A) ≥ 1.0°C	1.65 VDC at (A) ≥ 1.0°C	1.65 VDC at (A) ≥ 1.0°C
UP TO 1.80 VDC/CEL	UP TO 1.80 VDC/CEL	UP TO 1.80 VDC/CEL
165 Ah	226 Ah	278 Ah
157 Ah	200 Ah	260 Ah
134 Ah	180 Ah	220 Ah
1.21 < P < 1.24	1.21 < P < 1.24	1.21 < P < 1.24
320 min.	455 min.	630 min.
Less than 3 % per month at 25°C	Less than 3 % per month at 25°C	Less than 3 % per month at 25°C
AGM batteries can be stored for up to 6 months at 25°C, recommended to charge before use	AGM batteries can be stored for up to 6 months at 25°C, recommended to charge before use	AGM batteries can be stored for up to 6 months at 25°C, recommended to charge before use
1650 A	2000 A	2600 A
400	400	400
3.8 mΩ	4 mΩ	3.5 mΩ

* C10= measured capacity at 10 % discharge per hour over 10 hours

