

AGM-Power always energy to spare

Marine • Mobile • Land based • Solar • General use



Datasheet



12 V

55 Ah • 80 Ah • 100 Ah • 145 Ah • 200 Ah • 260 Ah

- Multi purpose battery
- For start and service use
- Maintenance free, recombination (VRLA) type
- Robust and shock resistant
- Limited ventilation needed
- Transportation by air approved
- Superb all-round behaviour



smart energy solutions

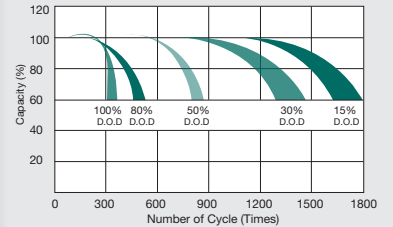


smart energy solutions

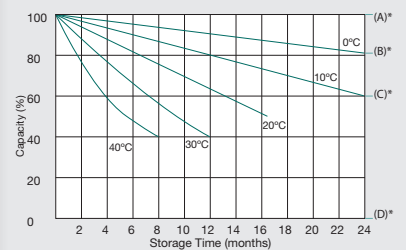


AGM Power	Part #	40290060	40290061	40290031	40290062	40290063	40290064
Specifications							
Nominal capacity (C10)		55 Ah	80 Ah	100 Ah	145 Ah	200 Ah	260 Ah
Nominal voltage		12.0 VDC	12.0 VDC	12.0 VDC	12.0 VDC	12.0 VDC	12.0 VDC
Type	Deep cycle Absorbed Glass Mat battery with 10 years floating design life, specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, gives the battery 30% more cyclic life. Applicable for marine, mobile and PV energy systems and as an engine starter battery.						
Weight +/- 10%		18.0 Kg	24.0 Kg	30.0 Kg	44.0 Kg	60.0 Kg	74.0 Kg
Dimensions l*w*h [mm] (excl. terminals)		229*138*210	350*167*180	328*172*222	340*173*280	522*240*219	520*268*220
Terminal type		M8 stainless steel					
Number of cells		6	6	6	6	6	6
Charge/discharge parameter							
Constant voltage Charging (IU, float)		13.60 to 13.80 VDC @ 25C					
Cyclic Charging (IUU, absorption)		14.25 to 14.60 VDC @ 25 C					
Recommended charging current limit (higher possible)		16.5 A	24.0 A	30.0 A	44.0 A	60.0 A	78.0 A
Temperature ratio		-4mv/cell/°C					
Discharge cut off voltage		1.75 VDC @ (A) <= 0.2 C					
100% depth of discharge d.o.d.		1.70 VDC @ 0.2 C (A) <= 1.0 C					
		1.65 VDC @ (A) >= 1.0 C					
Rated Capacity @ 25°C							
		rate to 1.75 VDC per cell	rate to 1.75 VDC per cell	rate to 1.75 VDC per cell	rate to 1.80 VDC per cell	rate to 1.80 VDC per cell	rate to 1.80 VDC per cell
20 hrs discharge		58.6 Ah	85.3 Ah	104.0 Ah	167.0 Ah	226.0 Ah	278.0 Ah
10 hrs discharge		55.0 Ah	80.0 Ah	100.0 Ah	145.0 Ah	200.0 Ah	260.0 Ah
5 hrs discharge		44.5 Ah	65.0 Ah	89.0 Ah	131.0 Ah	180.0 Ah	220.0 Ah
Peukert Coefficient		1.21<P<1.24	1.21<P<1.24	1.21<P<1.24	1.21<P<1.24	1.21<P<1.24	1.21<P<1.24
Time reserve minutes		92 minutes	146 minutes	190 minutes	305 minutes	455 minutes	630 minutes
25 amps discharge		less than 3% per month @ 25°C					
Self discharge		AGM-power batteries can be stored for maximum 6 months at 25°C, Charging recommended before using.					
Storage time							
Battery parameters							
Cranking amps @ 25°C (5 sec)		550 A	800 A	1000 A	1450 A	2000 A	2600 A
Cycle life at 80% of D.O.D		400	400	400	400	400	400
Internal resistance Approx.		6.0 mΩ	5.5 mΩ	5.0 mΩ	4.5 mΩ	4.0 mΩ	3.5 mΩ

Life characteristics of cyclic use



Storage characteristics



- *(A) Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)
- *(B) Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible
- *(C) Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached
- *(D) Supplementary charge and storage guidelines

Discharge characteristics curve

