



GM12-55

12V 55AH AGM Battery

Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		55Ah
Capacity 25°C (77°F)	10 hour rate (5.5A)	55Ah
	3 hour rate (13.75A)	41.25 Ah
	1 hour rate (30.25A)	30.25Ah
Internal Resistance	Full Charged Battery 25°C (77°F)	≤10mΩ
Cyclic Life	50%(C ₁₀) Depth of discharge	800Times
	30%(C ₁₀) Depth of discharge	1000Times
	20%(C ₁₀) Depth of discharge	1200Times
Float Life	25°C (77°F) Float charge at 13.8V	About 8-10 Years
Capacity affected by Temperature (10 hour)	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
Self-Discharge 25°C (77°F)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12 month storage	62%
Charge (Constant Voltage) 25°C (77°F)	Cycle	Initial Charging Current Less than 16.5A Voltage 14.6-15.0V
	Float	Voltage 13.5-13.8V
Operating Temperature Range during Charging/ Discharging		-15°C to 45°C

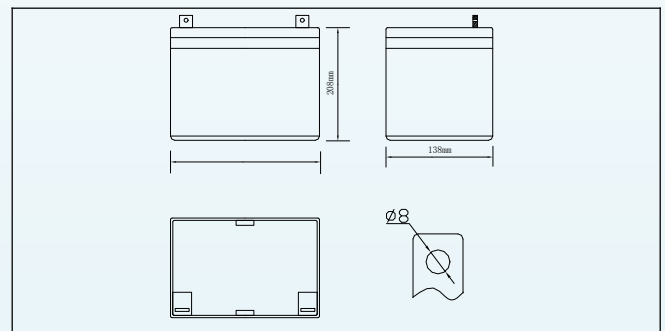
Product Image



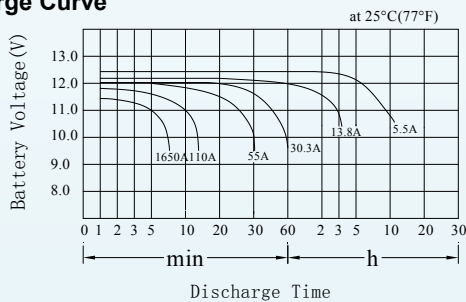
Packing

Battery (L×W×H)	mm±1	229×138×212
	inch	9.02×5.43×8.19
Box (L×W×H)	mm±2	252*162*260
	inch	9.93×6.39×10.25
Quantity Per Box		1 pcs
Net weight Per Cell		16.4kg±150g
Net weight Per Box		16.4kg
Gross Weight		16.7kg

Product Dimensions



Discharge Curve



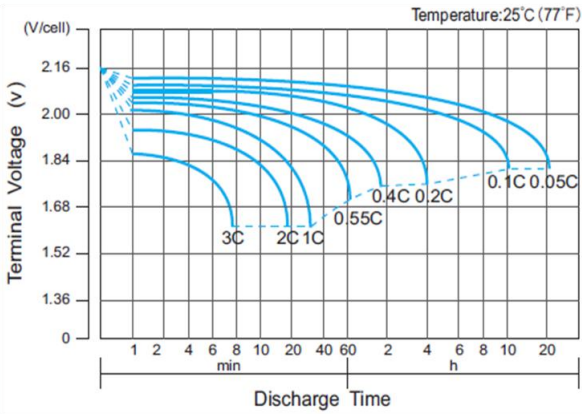
Battery Construction

Component	Positive plate	Negative plate	Container	Safety valve	Terminal	Separator	Electrolyte
Raw Material	Lead dioxide	Lead	ABS	Rubber	Copper/Pb	Fiberglass	Sulfuric acid

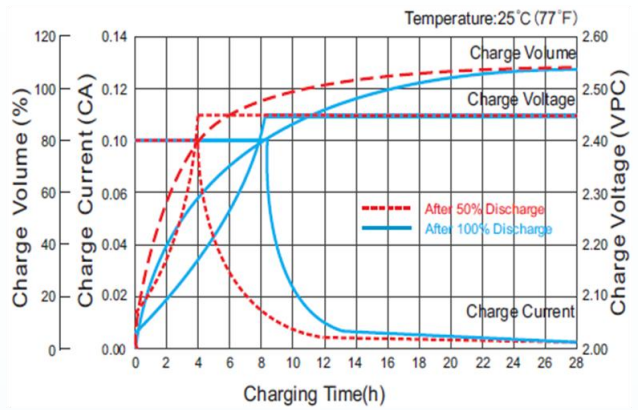
Discharge Characteristics

Voltage	Run Time (Constant Current and Power 25°C 77°F)										
	3 min	5 min	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h
9.6 V	2404	2090	1183	759	567	410	231	174	116	77.0	68.2
10.2V	2310	1788	1062	677	545	405	222	171	114	75.9	67.7
10.5V	2118	1694	1001	616	534	398	215	167	112	74.8	66.6
10.8V	1936	1612	869	550	517	391	209	160	108	74.3	66.0

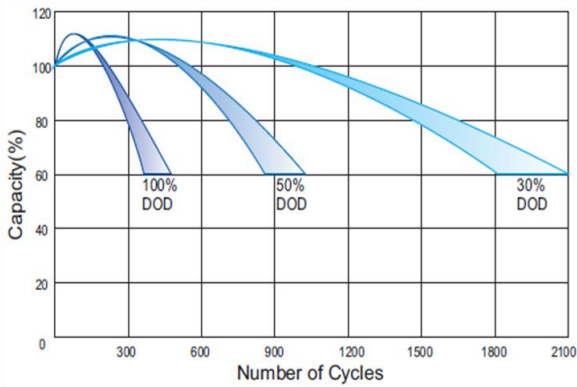
Discharge Characteristics Curve



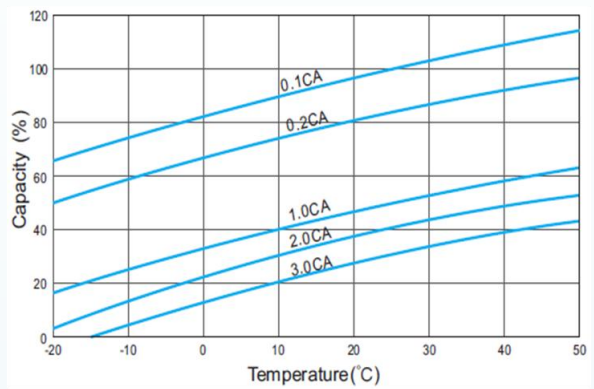
Charging Characteristics



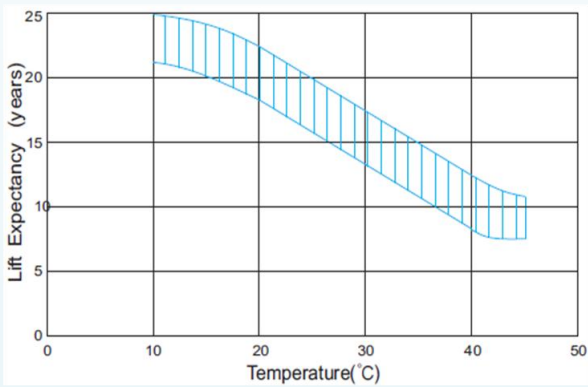
Cycle Life vs. Depth of Discharge (25°C)



Temperature Effects on Capacity



Effect of Temperature on Long Term Life



Storage Characteristics

