

12-42

Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		42Ah
Capacity 25°C(77°F)	10 hour rate (4.0A)	42Ah
	3 hour rate (10.5A)	31.5Ah
	1 hour rate (22.0A)	22Ah
Internal Resistance	Full Charged Battery 25°C(77°F)	≤15m Ω
Cyclic Life	50%(C ₁₀) Depth of discharge	900Times
Float Life	25°C(77°F) Float charge at 13.8V	About 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 12.0A Voltage 14.6-15.0V
	Float	Voltage 13.5-13.8V

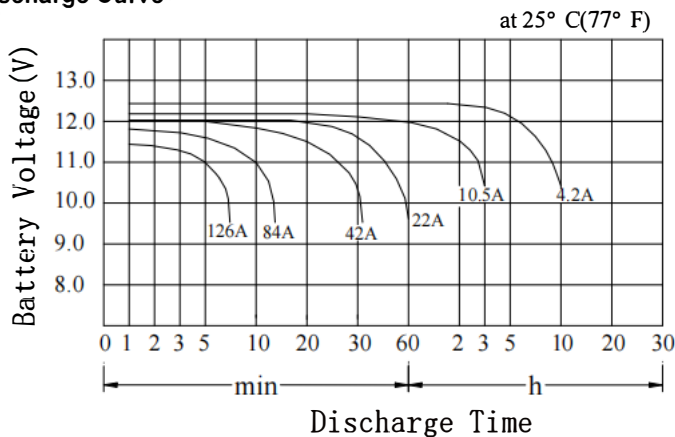
Product Image



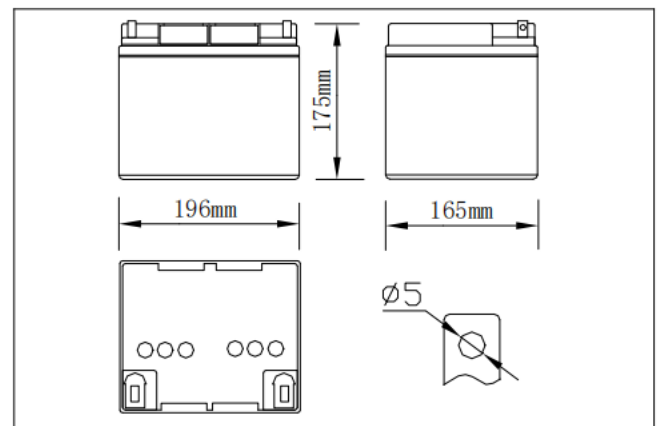
Packing

Battery (L×W×H)	mm	196×165×175×182
	inch	7.72×6.50×6.89×7.17
Box (L×W×H)	mm	210×177×216
	inch	8.27×6.97×8.50
Quantity Per Box		1 PC
Net weight Per Cell		12.2kg±100g
Net weight Per Box		12.2kg
Gross Weight		12.5kg

Discharge Curve



Product Dimensions



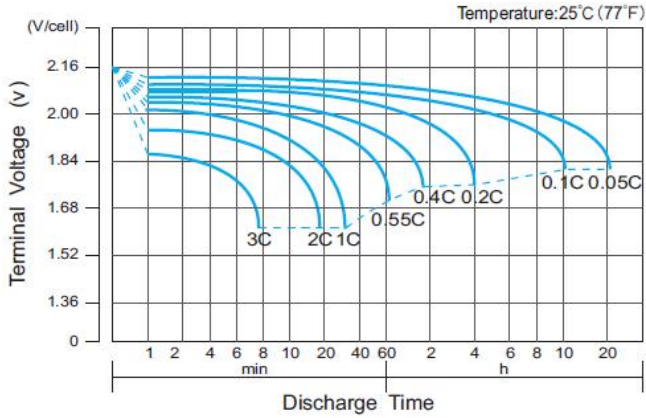
Battery Construction

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

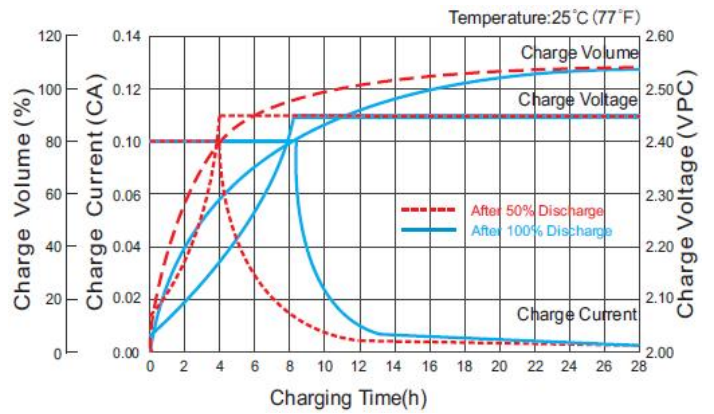
Discharge Characteristics

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	1748	1520	861	552	412	298	168	126	84.0	56.0	49.6
10.2V	1680	1301	772	492	396	295	168	124	83.2	55.2	49.2
10.5V	1541	1232	728	448	388	290	156	123	82.1	54.4	48.4
10.8V	1408	1172	632	400	376	284	152	116	78.1	54.1	48.0

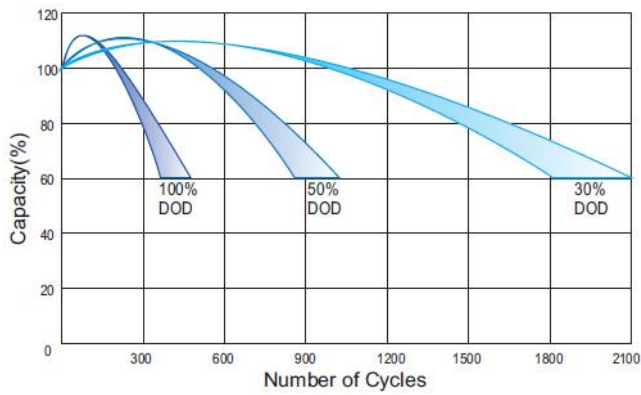
Discharge Characteristics Curve



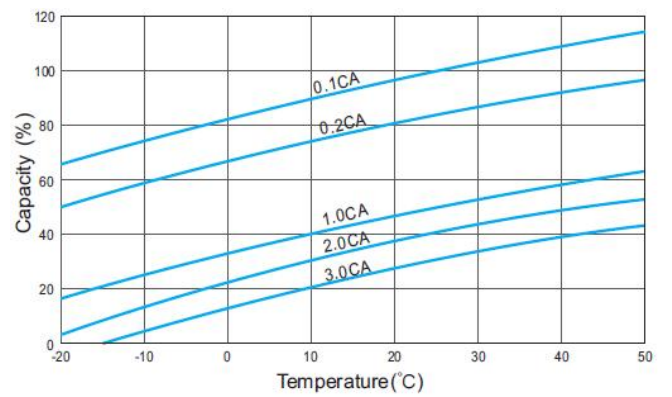
Charging Characteristics



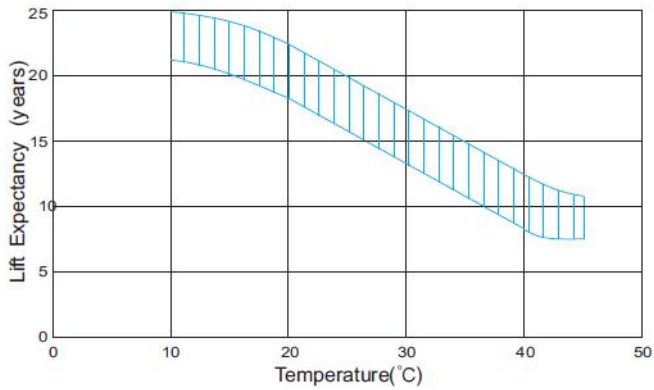
Cycle Life vs. Depth of Discharge (25°C)



Temperature Effects on Capacity



Effect of Temperature on Long Term Life



Storage Characteristics

