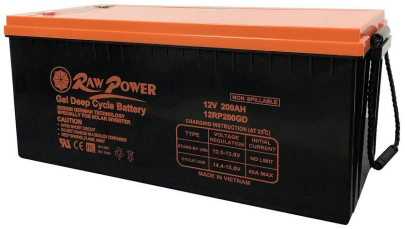
RAW POWER
GEL Deep Cycle Battery
12V 200AH [12RP200GD]



General Features

- Designed floating charging service life: 13 years (25ºC)
- Safety valve installation for explosion proof ,Sealed and maintenance free operation
- Nano-sized gas-phase SiO2 electrolyte was prepared with unique formula
- Extremely low self-discharge characteristic
- Wide operating temperature range from -10ºC~50ºC
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

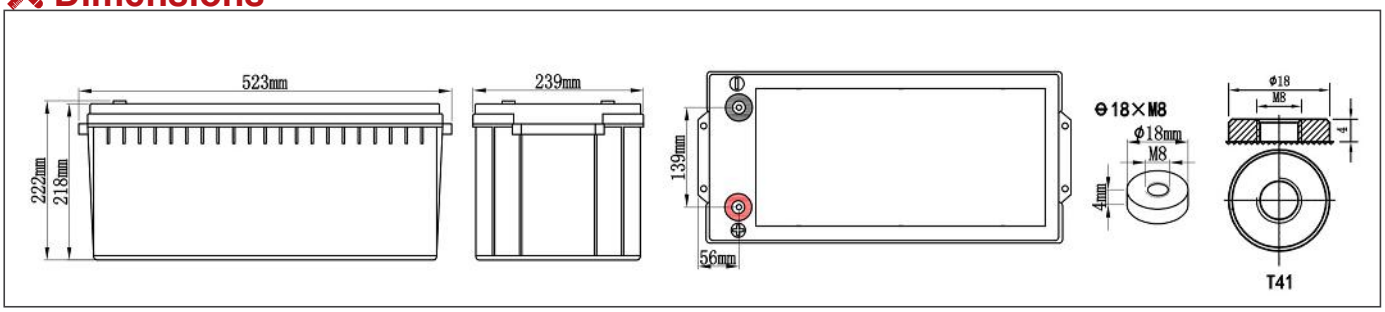
Application

- Electric tools/toys
- Electric wheel chairs
- Golf trolleys and golf carts
- Solar lighting systems
- Solar/wind energy storage systems
- Telecom stations and power stations

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	200AH	523±3mm	239±3mm	218±3mm	222±3mm	Approx 61.2kg (134.9lbs)	≈2.95mΩ	T41 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (10.0A)	212.0AH
10 hour rate (20.0A)	201.0AH
5 hour rate (34.0A)	170.0AH
3 hour rate (50.0A)	152.0AH
1 hour rate (120.0A)	120.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than 60A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under1.2A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 60A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/ºC.

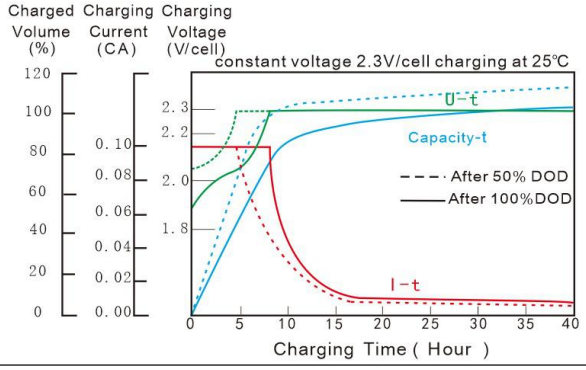
⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

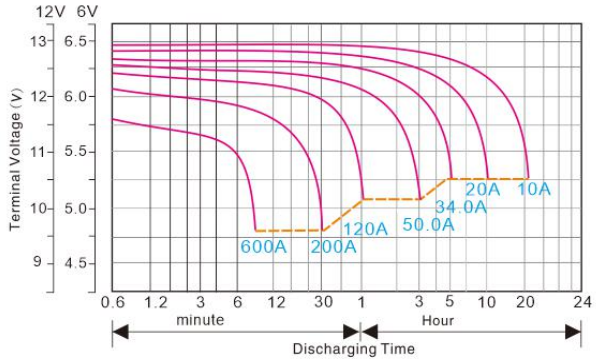
End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25ºC)													
10.20	629	479	361	192	178	124.8	98.4	82.4	51.70	35.93	25.53	20.86	10.68
10.50	559	439	337	184	170	119.8	94.6	79.4	50.01	34.24	24.13	20.56	10.58
10.80	519	399	315	178	162	114.8	90.7	76.4	48.21	32.74	22.94	20.14	10.44
Constant Power Discharge Data Sheet (Watt at 25ºC)													
10.20	6248	5290	3808	2391	1797	1561	1139	856	639	412	305	260	136
10.50	6009	4492	3418	2337	1757	1537	1121	828	618	399	301	252	132
10.80	5589	4192	3262	2286	1697	1467	1070	800	597	385	297	240	129

Performance Characteristics

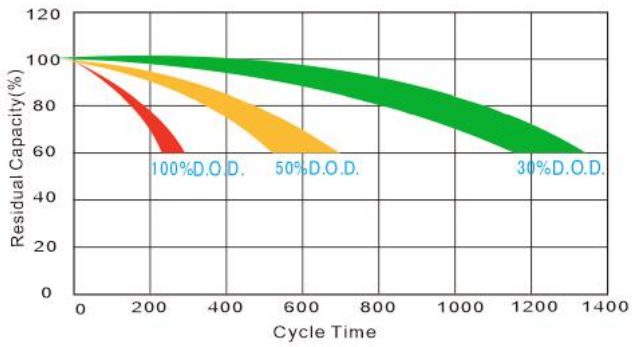
Charge Characteristics (25ºC/77ºF)



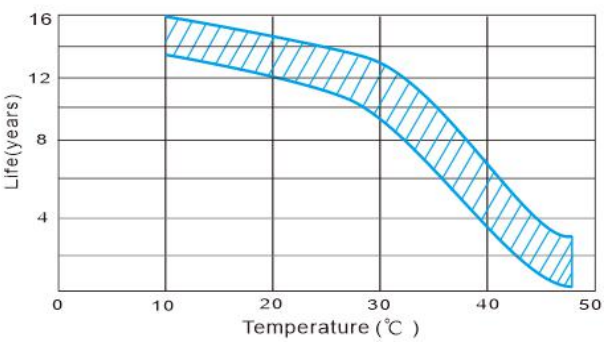
Discharge Characteristic (25ºC/77ºF)



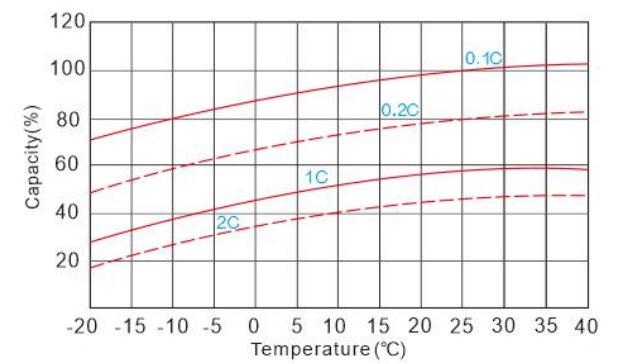
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics