

RAW POWER GEL Deep Cycle Battery

12V 150AH [12RP150GD]



General Features

- Designed floating charging service life: 13 years (25°C)
- 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 -10°C~50°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

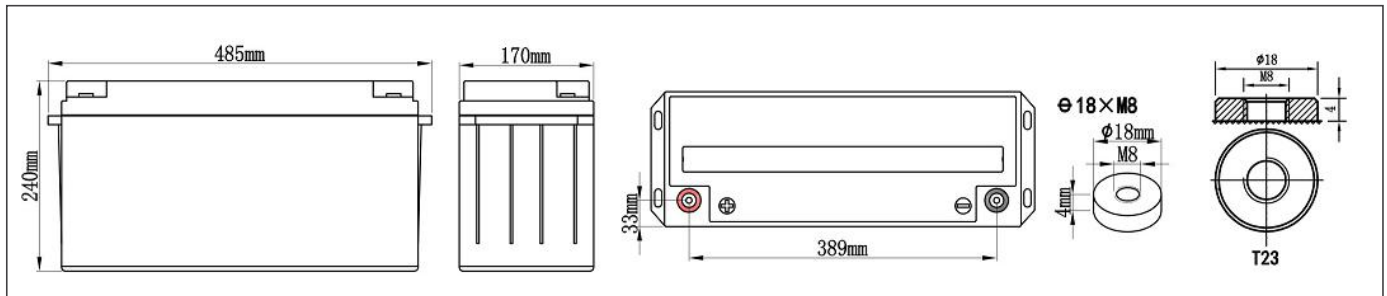
Application

- 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	150AH	485±3mm	170±2mm	240±3mm	240±3mm	Approx 46.25kg (101.9lbs)	≈3.10m Ω	T23 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (7.5A)	159.0AH
10 hour rate (15.0A)	150.0AH
5 hour rate (25.5A)	127.5AH
3 hour rate (37.5A)	114.0AH
1 hour rate (90.0A)	90.0AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 45A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under0.90A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit45A 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/°C.

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 25°C)													
10.20	475	362	273	144.9	133.8	94.2	74.37	62.29	39.05	27.12	19.29	15.75	8.08
10.50	422	332	255	138.9	127.8	90.5	71.45	60.08	37.74	25.89	18.25	15.58	8.00
10.80	391	302	239	133.8	121.8	86.6	68.53	57.66	36.43	24.78	17.34	15.33	7.90
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	4725	4000	2879	1808	1359	1180	860	648	483	312	231	196.2	102.9
10.50	4544	3396	2584	1767	1328	1162	847	627	468	302	228	190.2	99.6
10.80	4227	3170	2468	1729	1283	1110	809	606	452	291	225	181.1	97.4

Performance Characteristics

