

RAW POWER GEL Deep Cycle Battery 12V 65AH [12RP65GD]



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

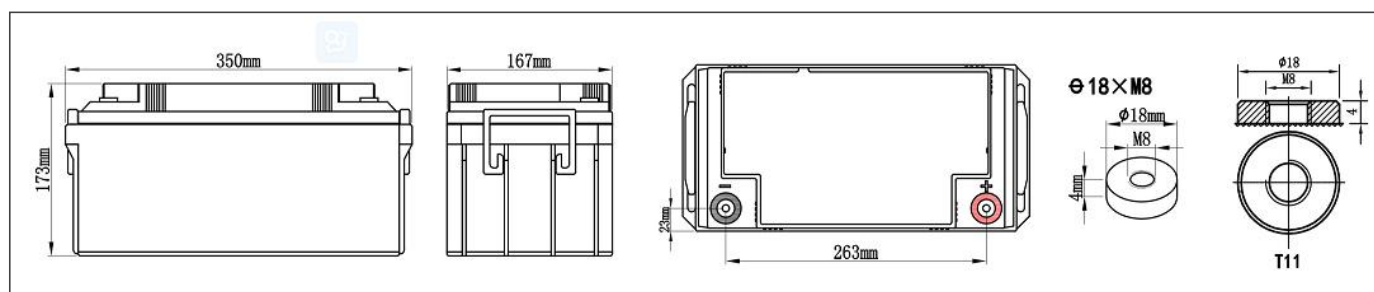
Application

- 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	65AH	350±3mm	167±2mm	173±2mm	173±2mm	Approx 20.5kg (45.2lbs)	≈5.8m Ω	T11 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (3.25A)	68.5AH
10 hour rate (6.50A)	65.0AH
5 hour rate (11.05A)	55.3AH
3 hour rate (16.25A)	49.0AH
1 hour rate (39.0A)	39.0AH
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 19.5A.
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 under 0.42A 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 limit 19.5A 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	202.6	154.5	128.4	61.89	57.38	40.32	31.80	26.38	16.65	11.64	8.26	6.89	3.52
10.50	180.6	141.4	120.4	59.38	54.77	38.72	30.59	25.38	16.15	11.03	7.80	6.65	3.49
10.80	167.5	129.4	112.3	57.38	52.26	37.11	29.29	24.37	15.65	10.63	7.41	6.53	3.45
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	2022	1712	1383	774	582	506	368	277	206.6	133.4	98.90	83.96	44.03
10.50	1945	1453	1242	756	569	498	363	268	200.5	129.3	97.60	81.45	42.63
10.80	1810	1357	1186	740	550	474	346	259	193.4	124.2	96.29	77.54	41.73

Performance Characteristics

