

The Crown of Power Solution

General Features

- •Designed floating charging service life: 15 years (25°C)
- Safety valve installation for explosion proof ,Sealed and maintenance free operation
- By using strong grids, high purity lead and patented Gel electrolyte
- Extremely low self-discharge characteristic
- Wide operating temperature range from -20°C~55°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems



Constant-Voltage Charge

Rated Capacity						
20 hour rate (5.9A)	125.0AH					
10 hour rate (11.8A)	118.0AH					
5 hour rate (20.0A)	100.0AH					
3 hour rate (29.5A)	88.5AH					
1 hour rate (70.8A)	70.8AH					
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 29.5.0A.
- 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
- 3. Hold at 14.1 v to 14.4 v until current drop to under 0.70 A 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 29.5.0A 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.

Battery Discharge Table

	Constant Current Discharge Data Sheet (Amperes at 25°C)									
F.V/Time	3Min	5Min	8Min	10Min	15Min	20Min	30Min	45Min	60Min	90Min
9.6	2430	2094	1854	1566	1254	1008	744	606	474	282
10.02	229 ²	1992	1752	1506	1218	984	726	588	462	276
10.2	213 <mark>6</mark>	1884	1662	1428	1164	942	702	570	450	270
10.5	1998	1776	1578	1362	1122	912	678	552	438	264
10.8	1854	1668	1494	1296	1080	882	660	540	426	258
		Co	nstant Pov	ver Dischar	ge Data Sh	eet (Watts,	/cell at 25º	C)		
9.6	4290	3852	3414	2934	2478	1938	1428	1152	900	546
10.02	4116	3708	3288	2838	2400	1896	1404	1140	894	540
10.2	3912	3540	3150	2730	2322	1854	1380	1128	882	534
10.5	3726	3390	3018	2622	2238	1812	1362	1110	876	528
10.8	3534	3228	2892	2526	2160	1776	1344	1098	870	522





The Crown of Power Solution

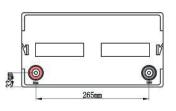
PhysicalSpecifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension					Internal	Standard
		L	W	Н	TH	Weight ±3%	Resistance (In full charge status)	Terminals
12V	100AH	331±3mm	173±2mm	216±3mm	222±3mm	Approx 32.5kg (71.5lbs)	≈4.5 mΩ	T13 (standard)

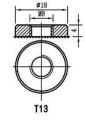
Dimensions(mm)











Performance Characteristics

