



POWER SOLID

The Crown of Power Solution

Power Solid Battery
PS-12650-DCR
12V , 65Ah

General Features

DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharging. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offer 30% more cyclic life than the standby series. It is suitable for UPS, solar & wind renewable energy, medical equipment ,telecom system, electric power system, electric vehicles, golf cars And Cable TV etc.

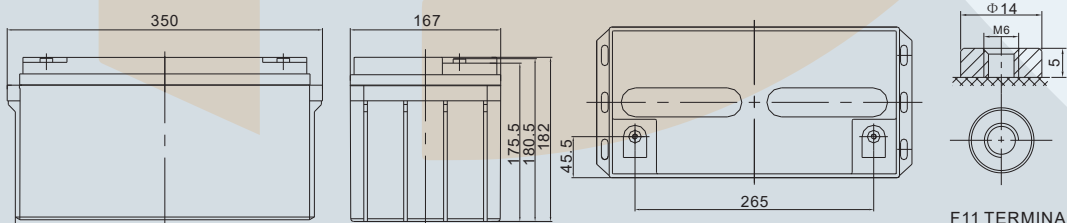
Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	65Ah@20hr-rate to 1.75V per cell @25C
Weight	Approx. 19.5 Kg (Tolerance ± 5%)
Internal Resistance	≤ 7.0 mΩ (Full Charge Condition @25C)
Terminal	Default F11 (M6) ,F5(M8)Optional
Max. Discharge Current	650A (5 sec)
Design Life	12 years
Max. Charging Current	19.5 A
Reference Capacity	C ₃ 48.8Ah C ₅ 55.3Ah C ₁₀ 61.9Ah C ₂₀ 65.0Ah
Float Charging Voltage	13.6 V~13.8 V @ 25C Temperature Compensation: -3mV/C Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25C Temperature Compensation: -4mV/C Cell
Operating Temperature Range	Discharge: -20C ~60C Charge: 0C ~50C Storage: -20C ~60C
Normal Operating Temperature Range	25C ± 5C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25C .Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



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Dimensions(mm)



Length	350±2mm (13.8 inches)
Width	167±2mm (6.57 inches)
Height	182±2mm (7.17 inches)
Total Height	182±2mm (7.17 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F11 TERMINAL

Unit: mm



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	157.8	120.0	70.79	39.48	23.51	18.31	14.37	12.22	7.837	6.500	3.369
1.65V	145.4	112.2	67.05	38.13	22.72	17.75	13.94	11.84	7.776	6.438	3.351
1.70V	134.7	105.5	63.58	36.91	22.12	17.00	13.51	11.52	7.652	6.314	3.309
1.75V	123.6	98.82	61.07	35.75	21.27	16.56	13.14	11.20	7.529	6.252	3.250
1.80V	112.5	90.49	58.82	34.16	20.54	16.25	12.83	11.05	7.405	6.190	3.219
1.85V	88.02	74.87	49.87	30.49	18.78	15.13	12.03	10.17	6.973	5.819	3.189

Constant Power Discharge Characteristics : W/Cell (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	268.7	209.3	128.6	74.11	44.45	34.77	27.69	23.13	15.27	12.75	6.725
1.65V	258.8	203.5	125.6	72.84	43.25	33.91	27.01	22.50	15.15	12.62	6.665
1.70V	241.5	192.6	119.6	70.71	42.17	32.61	26.15	21.94	14.97	12.38	6.605
1.75V	224.7	181.8	115.4	68.75	40.67	31.80	25.54	21.44	14.72	12.26	6.485
1.80V	207.1	168.0	111.6	65.94	39.75	31.63	25.05	21.15	14.48	12.13	6.425
1.85V	164.3	141.2	95.75	59.22	36.60	29.50	23.57	19.57	13.69	11.46	6.365

