

PR12-65DG

PR12-65DG is GEL deep cycle battery, with 12 years floating design life, superiorly designed or frequent cyclic discharge applications under extreme temperature. By using strong grid to insure reliable performance under frequent cyclic discharge use. 400 cycles could be available at 100% DOD. Offering extra-durable cyclic performance, high efficiency of recovery, that is more suitable for solar, mobility, E-toll, marine, deep discharge UPS etc.

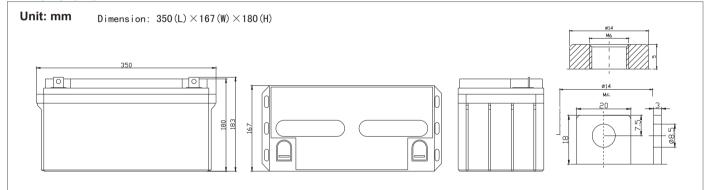


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 21.0 Kg
Max. Discharge Current	650 A (5 sec)
Internal Resistance	Approx. 8.0 m Ω
Operating Temperature Range	Discharge: -40°C~60°C Charge:-20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6to 13.8 VDC/unit Average at 25C
Recommended Maximum Charging Current Limit	13A
Equalization and Cycle Service	14.2 to 14.4VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F5/F11
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



Dimensions



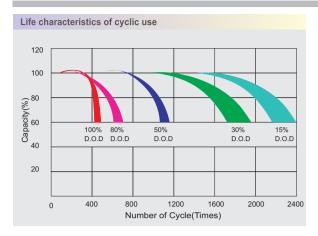
Constant Current Discharge Characteristics: A (25°C)

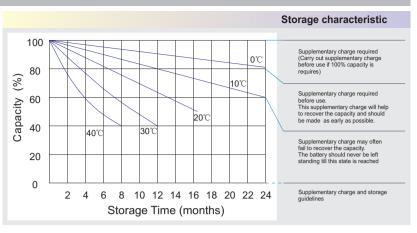
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	205.0	146.9	106.9	67.10	37.92	21.65	15.23	12.60	10.61	7.32	6.19	3.28
10.0V	199.5	139.8	104.7	65.99	37.75	21.49	15.17	12.54	10.55	7.27	6.13	3.22
10.2V	188.0	134.8	103.0	65.40	37.40	21.32	15.05	12.49	10.49	7.21	6.07	3.16
10.5V	168.8	124.4	98.11	63.77	37.05	21.16	14.99	12.37	10.36	7.15	6.01	3.10
10.8V	152.4	113.5	90.44	60.97	36.17	20.78	14.59	12.08	10.18	7.03	5.96	3.04
11.1V	132.6	101.4	81.12	57.12	34.36	19.86	13.94	11.49	9.7388	6.73	5.78	2.86

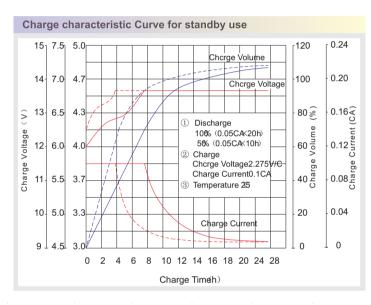
Constant Power Discharge Characteristics: W (25°C)

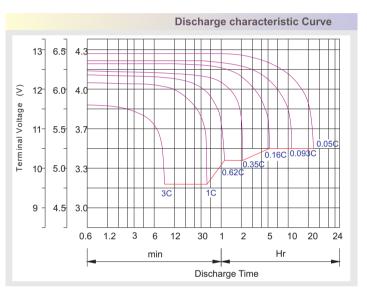
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	2136.2	1562.1	1150.1	757.2	433.7	249.1	175.7	145.6	122.9	85.00	69.64	36.78
10.0V	2092.5	1492.0	1126.2	747.7	431.6	248.1	175.4	145.3	122.1	84.64	68.93	36.43
10.2V	1975.3	1442.3	1110.9	739.0	428.5	245.8	174.3	144.6	121.7	83.93	68.57	36.07
10.5V	1778.7	1332.7	1059.3	722.2	424.3	243.5	173.3	143.5	120.6	83.21	67.86	35.71
10.8V	1600.0	1210.0	973.3	689.3	413.8	239.9	169.1	139.7	118.7	81.43	67.14	35.36
11.1V	1381.1	1074.6	869.1	645.9	392.1	228.9	160.7	133.0	112.7	78.57	65.00	33.93











Capacity Factors With Different Temperature

Battery	Туре	-20℃	-10°C	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
GEL	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

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Cycle service
Avoid battery over discharge, especially battery sereis connection use.
** Charged with recommend voltage, ensure battery can be full recharged.
In general, recharge capacity should be 1.1-1.15 times discharge capacity.
※ Effect of temperature on cycle charge voltage: -4m\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
** There are a number of factors that will affect the length of cyclic service.
The most significant are depth of discharge, ambient temperature,
discharge rate, and the manner in which the battery is recharged.

Generally specking, the most important factors is depth of discharge.