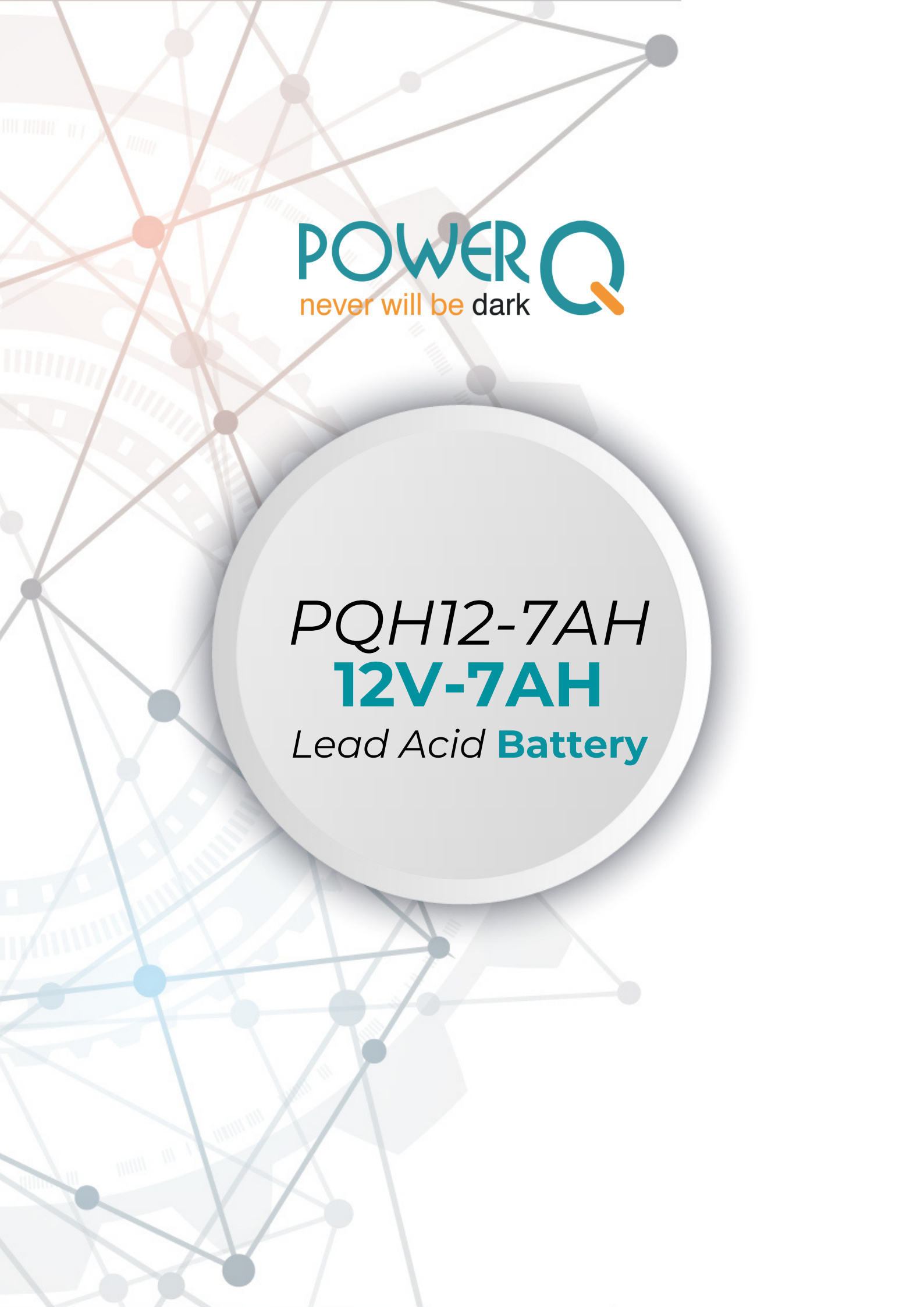




POWERQ
never will be dark

PQH12-7AH
12V-7AH
Lead Acid Battery



The PQH12-7AH is a 12V-7AH(High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 8 years design life in float service. By using strong grids, thick plate and specially designed active material. It is with lower I.R, lower self discharge rate, high power, and longer service life. The HR series battery offers 30% more power output than the standard series. It is suitable for high power standby used, such as datacenter, UPS, EPS etc.

SPECIFICATION

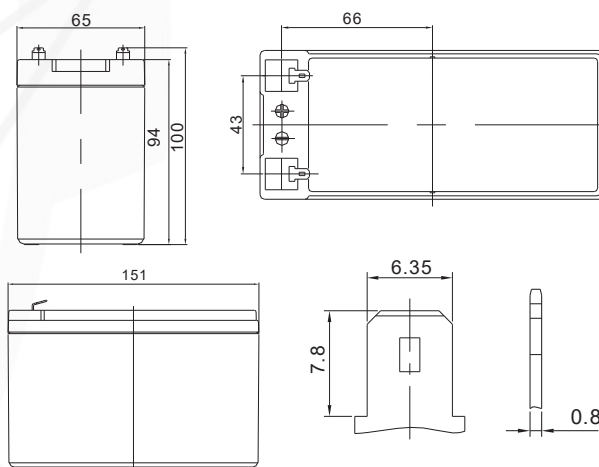
Cells Per Unit	6
Voltage Per Unit	12V
Capacity	32W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 2.08Kg (Tolerance±5%)
Internal Resistance	≤22.0 mΩ (Full Charge Condition @25°C)
Max. Discharge Current	80A (5 sec)
Short Circuit Current	440A
Max. Charging Current	2.4 A
Reference Capacity	C ₁₀ 7.5Ah C ₂₀ 8.0Ah
Float Charging Voltage	13.5 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Equalization Charging Voltage	14.1 V~14.4 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C ~50°C Storage: -20°C ~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	POWER Q Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using

Terminal	F2
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

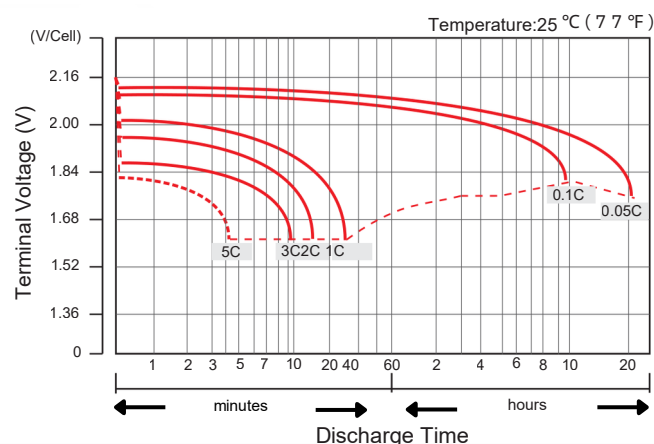
DIMENSIONS

(Units: mm (inch))

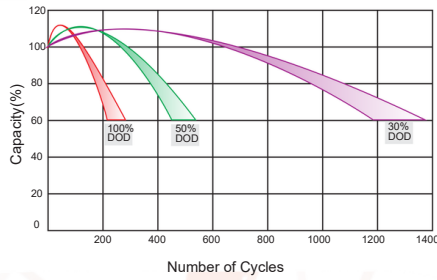
Length (L)	151±1.5 (5.94)
Width (W)	65±1.5 (2.56)
Height (H)	94±1.5 (3.70)
Overall Height (HT)	100±1.5 (3.94)



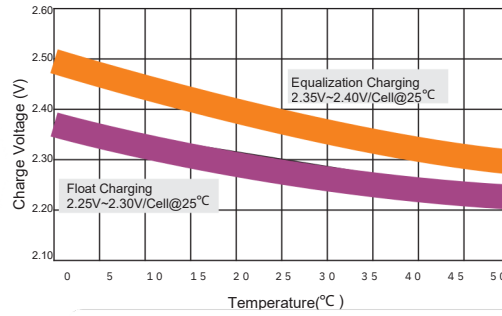
Discharge CharacteristicsCurve



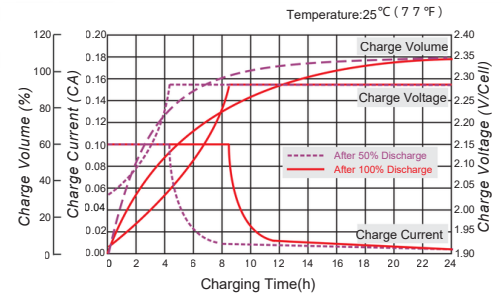
Cycle Life In Relation To Depth Of Discharge



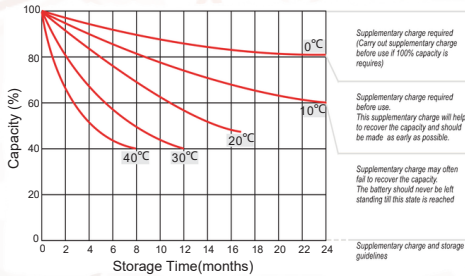
Relationship Between Charging Voltage And Temperature



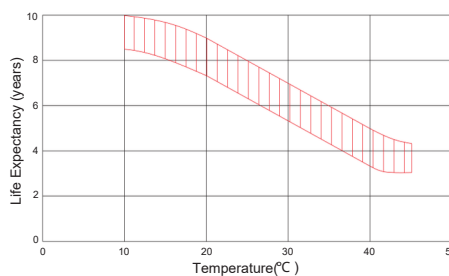
Charge Characteristic Curve For Standby Use(IU)



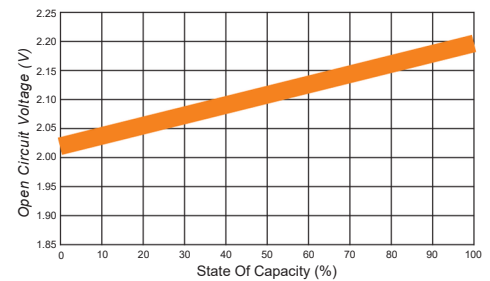
Storage Characteristics



Effect Of Temperature On Long Term Life



Relationship of OCV And State of Charge(20)



Case Material

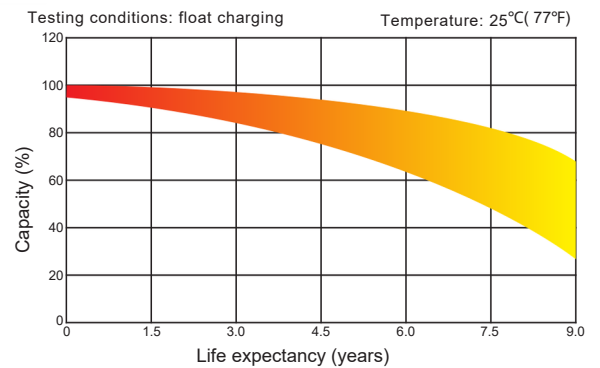
ABS UL94-HB

Optional: Flammability resistance of (UL94 V-0)

Design Life & Standard

8 years

Life Characteristics Of Standby Use



PERFORMANCE DATA

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	41.73	36.68	29.31	25.12	18.53	14.57	10.38	5.821	4.126
1.67V	37.87	33.28	26.80	23.16	17.33	13.75	9.835	5.548	3.949
1.70V	36.23	31.85	25.73	22.32	16.80	13.38	9.592	5.427	3.876
1.75V	33.56	29.50	23.97	20.91	15.87	12.72	9.191	5.245	3.758
1.80V	30.74	27.02	22.16	19.51	15.07	12.12	8.790	5.048	3.625
1.85V	26.28	23.10	18.88	16.56	12.92	10.52	7.773	4.563	3.316

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

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	74.99	65.92	52.85	45.47	33.87	26.82	19.18	10.91	7.811
1.67V	68.90	60.56	48.99	42.53	32.00	25.59	18.47	10.50	7.545
1.70V	66.52	58.48	47.41	41.26	31.33	25.05	18.04	10.34	7.427
1.75V	62.22	54.69	44.67	39.16	29.87	24.10	17.47	10.05	7.236
1.80V	57.76	50.77	41.79	36.91	28.53	23.14	16.89	9.762	7.044
1.85V	50.19	44.12	36.11	31.72	24.80	20.28	15.03	8.883	6.469

All data on the spec.sheet is an average value:

obtained within three charge/discharge cycle not the minimum values

PQH12-7AH 12V-7AH

High Rate Lead-Acid Battery

For inquiries, orders, or technical support,
we are available 24/7 to assist you with your
battery solutions.

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Website: www.powerq.com



ISO 9001



ISO 14001



ISO 45001

