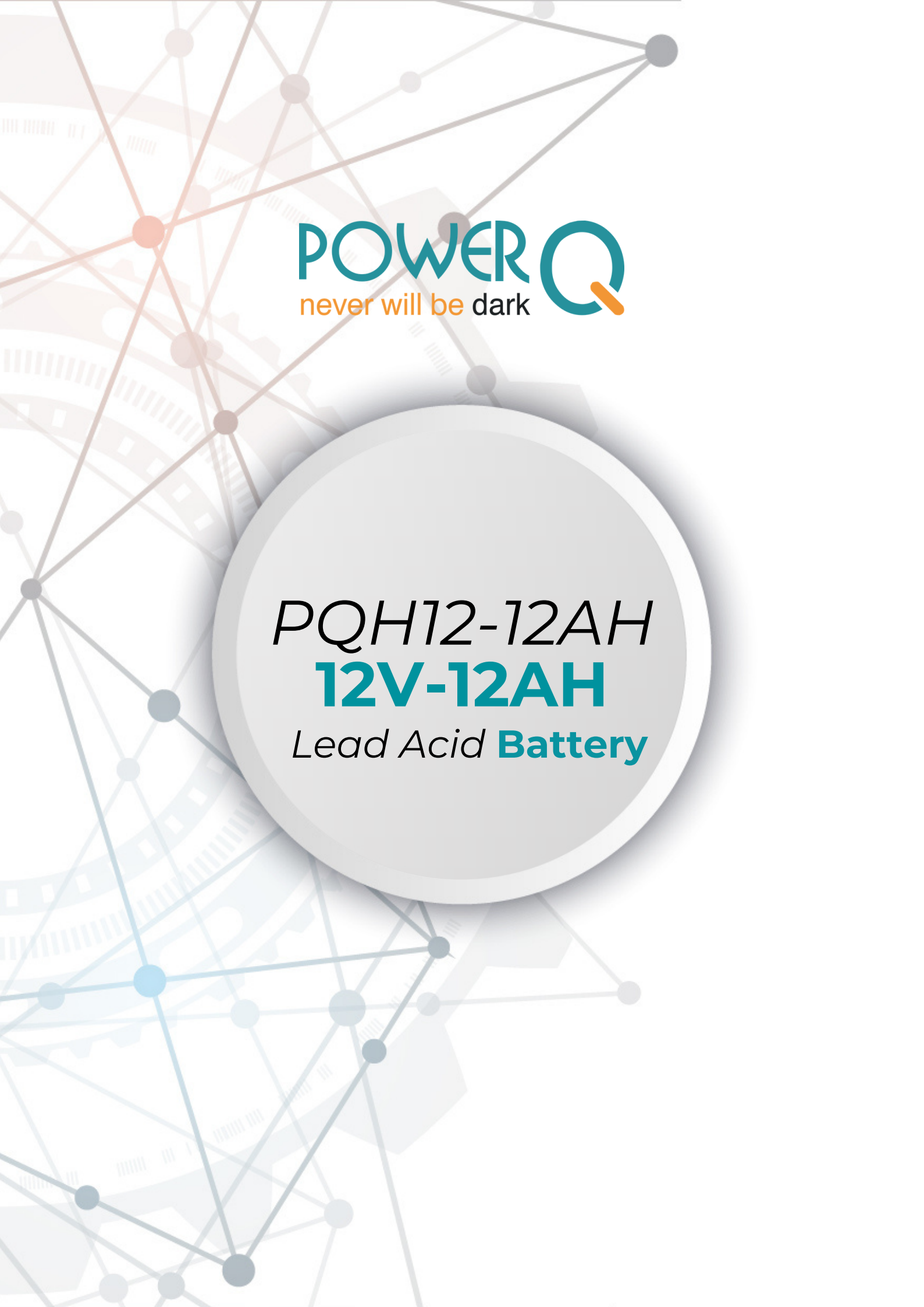




POWERQ
never will be dark

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



The PQH12-12AH is a 12V-12AH(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

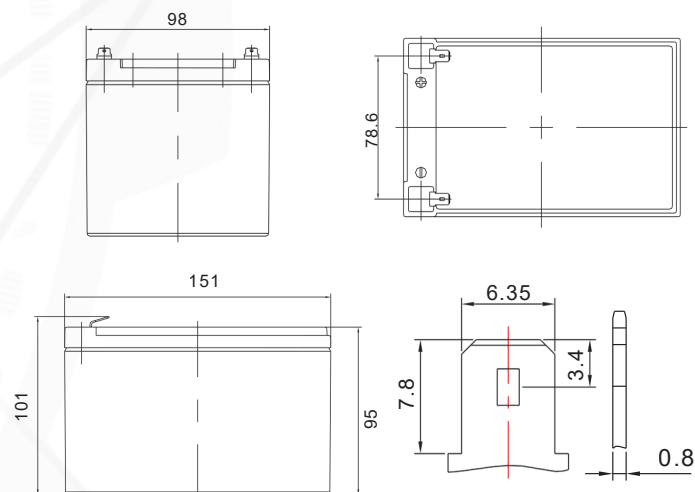
Cells Per Unit	6
Voltage Per Unit	12V
Capacity	48W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 4.20Kg (Tolerance±4.0%)
Internal Resistance	Approx. 12 mΩ
Max. Discharge Current	120A (5 sec)
Short Circuit Current	660A
Max. Charging Current	3.6 A
Reference Capacity	C ₁₀ 11.4Ah C ₂₀ 12.0Ah
Standby Use Voltage	13.7 V~13.9 V @ 25°C
Cycle Use Voltage	14.6 V~14.8 V @ 25°C
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

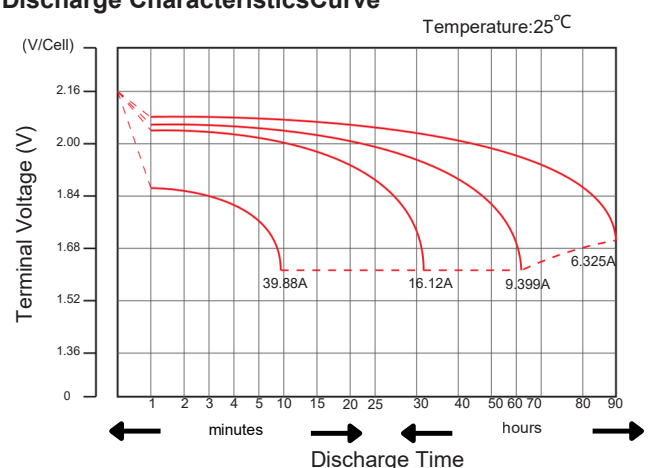
DIMENSIONS

(Units: mm (inch))

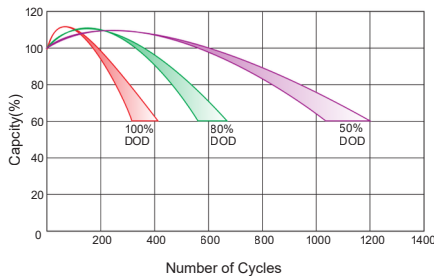
Length (L)	151±1 (5.94)
Width (W)	98±1 (3.86)
Height (H)	95±1 (3.74)
Overall Height (HT)	100±1 (3.98)



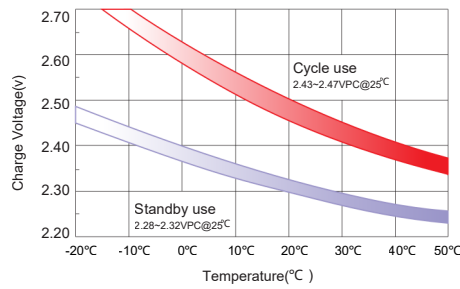
Discharge CharacteristicsCurve



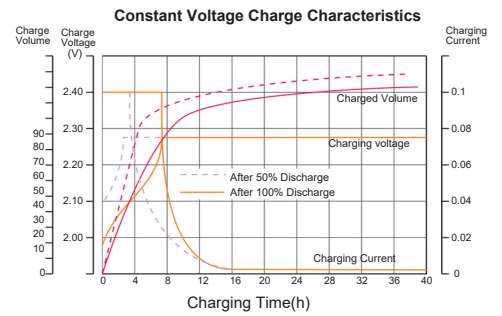
Cycle Life In Relation To Depth Of Discharge



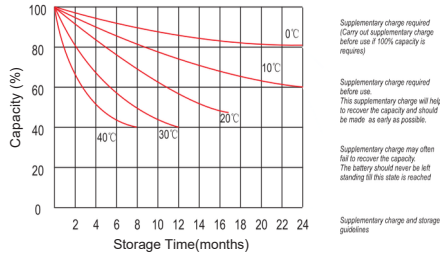
Relationship Between Charging Voltage And Temperature



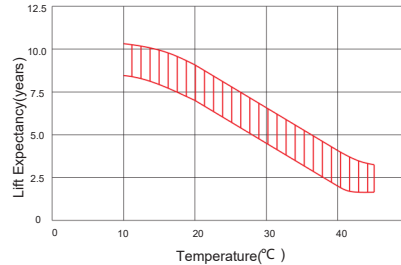
Charge Characteristic Curve For Standby Use



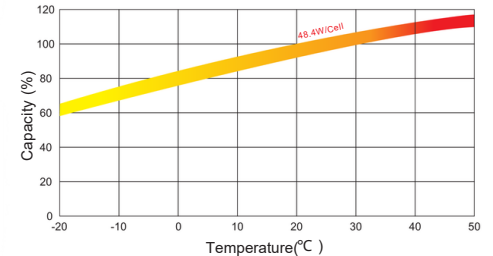
Storage Characteristics



Effect Of Temperature On Long Term Life



Temperature Effects On Capacity



Case Material

ABS UL94-HB

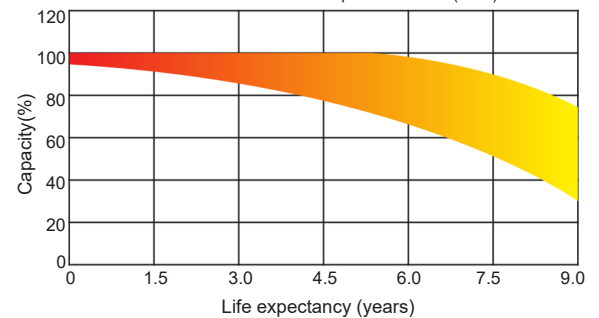
Optional: Flammability resistance of (UL94 V-0)

Design Life & Standard

8 years

Life Characteristics Of Standby Use

Testing conditions: floating charge
Temperature: 25°C(77°F)



PERFORMANCE DATA

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	55.16	47.96	39.88	35.18	27.20	22.01	16.12	9.399	6.850
1.67V	51.04	44.38	37.41	33.01	25.78	20.53	15.37	8.957	6.521
1.70V	48.92	42.53	36.09	31.82	24.99	19.75	14.93	8.700	6.325
1.75V	46.20	40.17	34.29	29.88	23.81	19.21	14.51	8.557	6.183
1.80V	43.45	37.79	32.48	27.92	22.62	18.64	14.06	8.387	6.034
1.85V	40.55	35.26	30.54	25.89	21.33	17.99	13.54	8.186	5.853

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	3MIN	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	100	86.9	73.3	65.0	50.6	40.5	29.7	17.4	12.7
1.67V	93.3	81.2	69.4	61.6	48.4	38.1	28.6	16.7	12.2
1.70V	90.5	78.7	67.8	60.1	47.5	37.1	28.1	16.4	12.0
1.75V	86.6	75.3	65.2	57.1	45.8	36.5	27.7	16.4	11.9
1.80V	82.6	71.8	62.7	54.2	44.2	36.0	27.2	16.3	11.8
1.85V	78.6	68.4	60.1	51.2	42.5	35.4	26.7	16.2	11.6

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

obtained within three charge/discharge cycle not the minimum values

PQH12-12AH

12V-12AH

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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Email: info@powerq.co.uk

Website: www.powerq.com



ISO 9001



ISO 14001



ISO 45001

