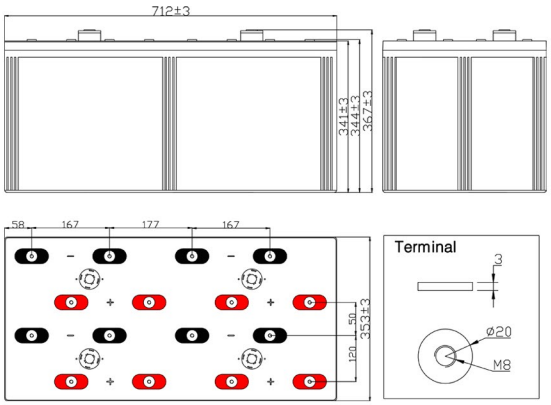
AGM GEL BATTERY
GL3000-2 (2V3000Ah/10HR)

Specification

Nominal Voltage (V)	2V	
Rated Capacity	3090.0Ah	(C_{10},1.70V/cell)
Dimensions(mm)	Length	712 ± 3 mm
	Width	353 ± 3 mm
	Height	341 ± 3 mm
	Total Height	382 ± 3 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (166.8A to 1.70 volts)	3336Ah
	10 Hour rate (309.0A to 1.70 volts)	3090Ah
	5 Hour rate (534.6A to 1.70 volts)	2673Ah
	1 Hour rate (1815A to 1.70 volts)	1815Ah
Approx. Weight	169.0 kg	
Terminal	T14	
Max.Discharge Current	19500A @25℃ (5s)	
Internal Resistance	0.2mΩ @25℃ (Full Charged Battery)	
Floating Design Life	18 years @25℃	
Ambient Temperature	Charge：-20℃~50℃ Discharge：-40℃~60℃ Storage：-20℃~60℃	
Container Material	A.B.S , UL94-HB , UL94-V0 , Optional	
Self Discharge	VRLA batteries can be stored for more than 6 months at 25℃. Self-Discharge ratio less than 3% per month at 25℃. Please charge batteries before using.	





Certification

MH28792

XK06-006-00763

Constant Current Discharge Characteristics (A), (25°C)

F.V/TIME	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	5100.0	3015.0	1875.0	1165.5	806.4	540.9	372.6	315.0	172.8
1.70V/cell	4650.0	2745.0	1815.0	1150.5	796.5	534.6	366.6	309.0	166.8
1.75V/cell	4260.0	2505.0	1740.0	1135.5	787.5	526.5	363.0	306.0	163.8
1.80V/cell	3810.0	2295.0	1650.0	1119.9	772.5	518.7	357.6	303.0	160.8

Constant Wattage Discharge Characteristics (Watt), (25°C)

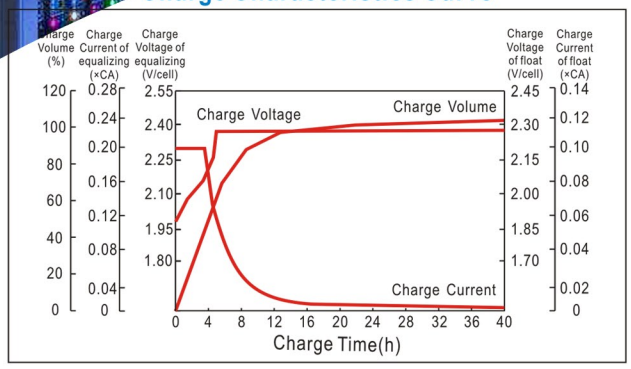
F.V/TIME	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	9137.5	5527.5	3515.6	2214.5	1545.6	1075.5	741.5	627.4	345.3
1.70V/cell	8525.0	5146.9	3463.6	2205.1	1539.9	1065.6	731.4	617.0	333.6
1.75V/cell	7881.0	4738.6	3349.5	2195.3	1535.6	1052.1	726.0	612.0	327.6
1.80V/cell	7112.0	4379.6	3203.8	2183.8	1519.3	1037.4	715.2	606.0	321.6

POWER KINGDOM®

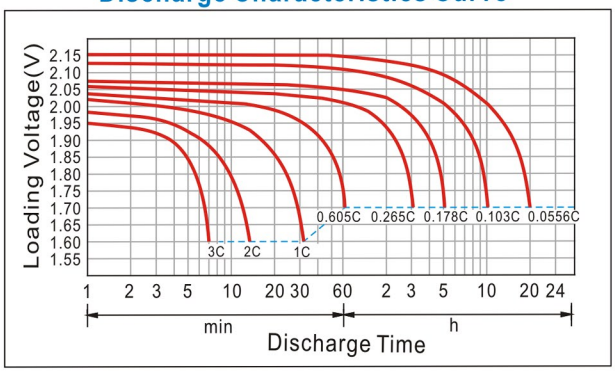
AGM GEL BATTERY

GL3000-2 (2V3000Ah/10HR)

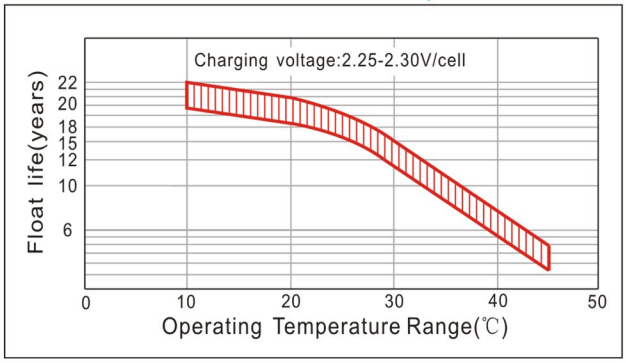
Charge Characteristics Curve



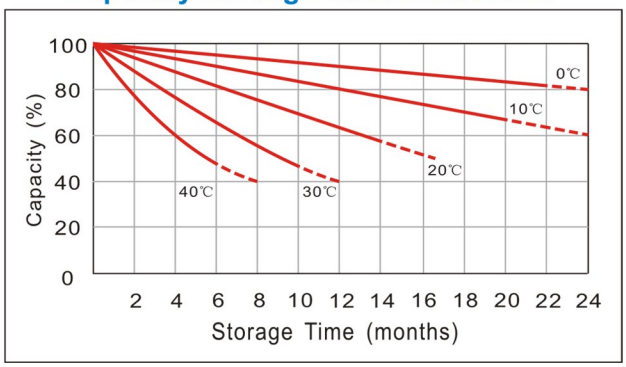
Discharge Characteristics Curve



Float Service Life VS Temperature



Capacity Storage Characteristics



Capacity Factors with Different Temperature

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

Maintenance & Cautions

☑ Charging Procedure:

Application	Charging method	Charge voltage at 25℃	Temperature compensation coefficient of charging voltage	Max.charging current	Temperature
Floating charge	Constant voltage charging (With current restriction)	2.23~2.27 V/cell	-3mV/℃/cell	0.2CA	-20~50℃
Equalizing charge		2.30~2.35 V/cell	-4mV/℃/cell	0.3CA	

☑ Every month, recommend inspection every battery voltage.

☑ Every three months, recommend equalization charge for one time.Equalization charge method:

Step 1:Discharge: 100% rate capacity discharge.

Step 2:Charge: Max. Current 0.3CA, constant voltage 2.30–2.35V/Cell charge 24h.

☑ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, Ambient temperature and charging voltage.

☑ Charge the batteries at least once every six months, if they are stored at 25℃.Charging Method:

Constant Voltage : -0.2C × 2h+2.4~2.45V/cell × 24h , Max. Current 0.25CA

Constant Current : -0.2C × 2h+0.1C × 12h

Fast : -0.2C × 2h+0.3C × 4h

☑ Terminal of torque:

Bolt	M5	M6	M8
Terminal	T3、T10	T4、T7、T11、T12、T13	T5、T6、T8、T9、T14
Torque	6~7N·m	8~10N·m	10~12N·m

Shenzhen Power Kingdom Co.,Ltd Email: sales@powerkingdom.com.cn Tel: +86-755-22161920 22161923

www.powerkingdom.com.cn Baigongao Industrial Zone, Xikeng New Village, Fumin, Guanlan Town, Shenzhen Guangdong, China