



VALVE REGULATED LEAD ACID BATTERY- MEDIUM AND LARGE CAPACITY SERIES

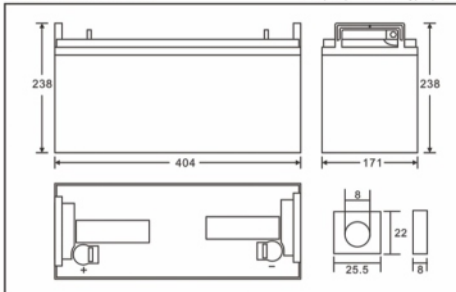
MODEL: TP120-12

Product Code: VRLA-12120001



Plane Chart:

Unit:(mm) Terminal type:(B4/T3)



ISO9001
ISO140001
OHSAS18001

Characteristic:

- 1.100% testing before out of factory, stable and reliable quality is guaranteed.
2. Professional alloy formula and advanced manufacturing techniques.
3. Completely sealed and maintainance free, low self-discharge.
4. Good charge-discharge acceptability.
5. Cyclic application: deep cycle charge-discharge for more than 260 times.
6. Floating application: for 3-5 years.

Application:

Anti-theft system
Radio transceiver
Power system
Railroad engine and railway communication
Emergency lighting and lamps
Electric tools
Electronic instruments and other backup power
Medical facilities
UPS for banking system
Computer backup power
Marine system
UPS for fire fighting system
Toys

Parts:

Executed Standard: GB/T 19638.2-2005

Cover	Container Bottom	Terminal	Positive Plate	Negative Plate	Separator	Electrolyte	Safety Valve	Seal Glue
ABS	ABS	Copper	PbO ₂	Pb	AGM	dilute sulphuric acid	Rubber	Epoxy Resin

Packing

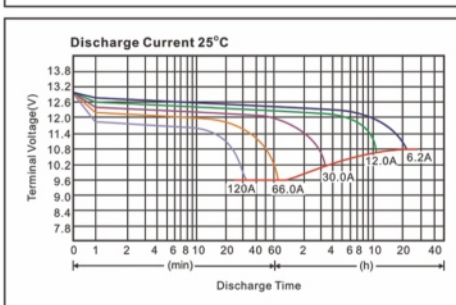
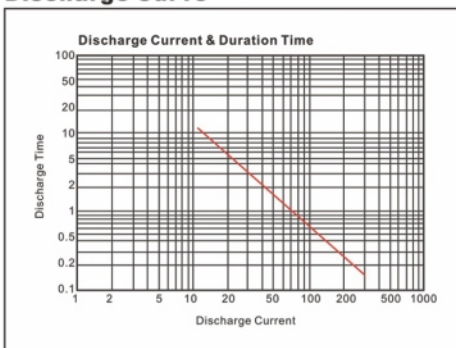
Date	Battery Packing	Inner Packing	Outer Packing
① Printing	① Polybag	Paper Box	Carton Packing
② Branded	② Shrink		
Carton Sealing		Accessories	
① Packing Strap		Bolts&nuts	Mini Charger
② Shrink		With	Optional

Parameter Chart:

Volts		12V	
Capacity(25°C)	10 hours rate (12A)	120Ah	
	3 hours rate (30A)	95Ah	
	1 hours rate (66A)	72Ah	
Internal Resistance	Full Charged Battery 25°C		3.4mΩ
Capacity Affected By Temperature (20 hours rate)	40°C	102%	
	25°C	100%	
	0°C	85%	
	-15°C	62%	
Residual Capacity (25°C)	Capacity After 3 Months Storage	91%	
	Capacity After 6 Months Storage	82%	
	Capacity After 12 Months Storage	64%	
Charge (Constant Voltage)	Cycle (25°C)	Initial Charging Current Less Than 36A Voltage 14.5~14.9V	
Float Service Life(Above 5 Years)		Float Charge Voltage 13.6~13.8/12V (25°C)	
Weight (Approx)		37.2Kg	

*The above are average and date obtained from the first 3 charge/discharge cycles. These are not minimum values.

Discharge Curve



Constant Current Discharge (Amperes) at 25°C (77°F)												
F.V/Time	5min	10min	15min	30min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/cell	19.320	14.490	10.500	7.070	4.130	2.310	1.750	1.400	1.232	1.008	0.658	0.343
1.75V/cell	20.020	14.770	10.710	7.210	4.190	2.380	1.820	1.470	1.260	1.022	0.672	0.350
1.70V/cell	21.840	15.680	11.340	7.490	4.270	2.450	1.869	1.491	1.281	1.043	0.685	0.356
1.65V/cell	24.010	17.010	12.320	7.910	4.270	2.460	1.890	1.509	1.295	1.050	0.693	0.357
1.60V/cell	26.040	17.850	12.950	8.260	4.340	2.520	1.904	1.519	1.309	1.071	0.700	0.364

Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	5min	10min	15min	30min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/cell	253.090	186.310	149.310	88.790	50.950	27.600	20.399	16.860	14.070	11.820	7.858	4.116
1.75V/cell	292.910	201.810	156.200	92.190	52.470	26.140	20.811	17.160	14.280	12.000	7.980	4.200
1.70V/cell	311.220	209.120	160.990	94.290	53.420	26.620	21.000	17.460	14.360	12.240	8.022	4.221
1.65V/cell	325.210	214.120	164.680	95.590	54.060	26.920	21.151	17.640	14.410	12.360	8.039	4.229
1.60V/cell	336.000	218.400	168.000	96.600	54.600	29.220	21.269	17.820	14.448	12.480	8.039	4.229