

SPG series

Medium and small capacity VRLA battery For high power application

SPG12470W 12V100Ah
Features and benefits:

- Designed life : 10 years (25) ;
- Calcium-lead-tin multi-alloy to supply a long floating life ;
- Electrolyte absorbed in high quality AGM separator ;
- High intensity ABS container and cover for high impact resistant, and vibration resistant (flame retardant optional) ;
- Patent terminal sealing technology for safety and integrity ;
- Round copper terminal insert ;
- High-rate discharge performance ;
- Excellent recovery ability after over-discharge ;
- Gas recombination efficiency : ≥98%.

Working features:

- Rated voltage:12V
- Number of cells: 6
- Rated capacity at 77°F(25)
 - 20 hours' rate (5.50A, 10.80V) 110.0Ah
 - 10 hours' rate (10.00A, 10.80V) 100.0Ah
 - 5 hours' rate (17.50A, 10.20V) 87.5Ah
 - 1 hour's rate (65.00A, 10.20V) 65.0Ah
- Internal resistance : 4.2 mΩ for fully charged battery at 77°F (25)
- Self discharge rate: ≤2% per month at 77°F (25)
- Maximum discharge current: 1200A(5s) at 77°F(25)
- Temperature range
 - Discharge: -15~+45
 - Charge: -10~+45
 - Storage: -15~+45
- Charging method: constant voltage and limited current at 77°F(25)
 - Maximum charging current: 30.0A
 - Cyclic use: 14.4-15.0V/piece
 - Temperature compensation: -24mV/ /unit
 - Floating use: 13.5 -13.8V/piece
 - Temperature compensation: -18mV/ /unit

Complied standard :

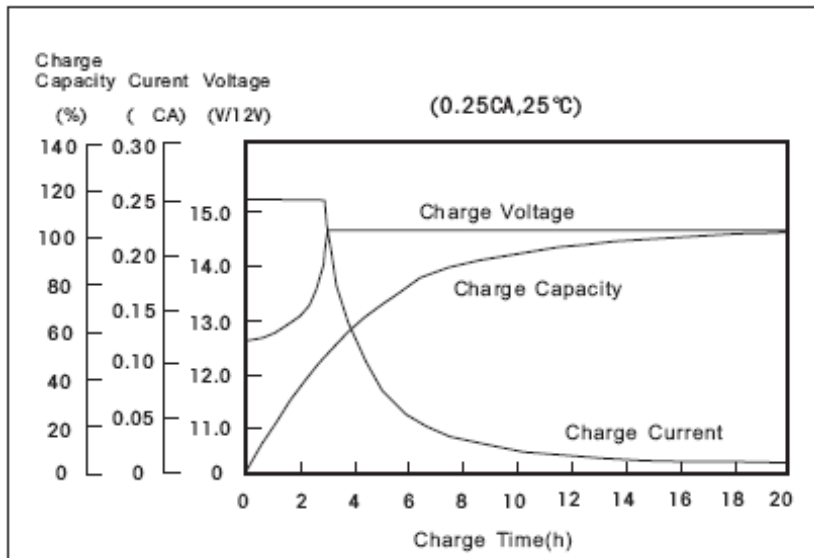
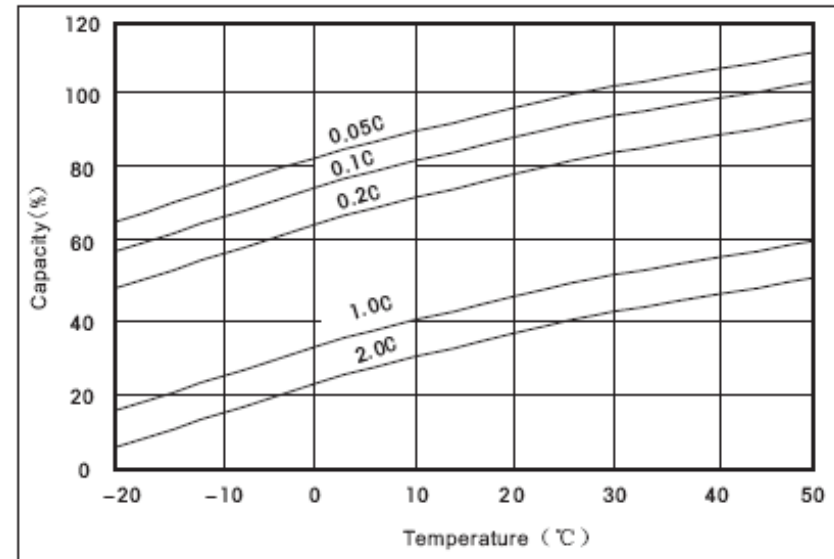
- GB/T 19639.1-2005 ;
- IEC 61056-1/2 : 2002 ;
- JIS C8702-1/2 : 2009 ;
- Passing ISO9001, ISO 14001, OHSAS18001, UL and CE certification.

Dimension and weight :

	International unit	British unit
Length	329mm	12.95inch
Width	172mm	6.77inch
Height	215.5mm	8.48 inch
TH	223mm	8.78inch
Weight	29.9kg	65.93lbs

Discharge parameter :

Constant Current Discharge Data (77°F ,25) -----(A)													
Cut-off Voltage (V/cell)	Discharge Time (minute)												
	5	10	15	20	30	45	60	90	120	180	300	600	1200
1.60	355.0	275.0	223.4	180.0	139.0	93.90	71.70	52.30	42.70	32.00	19.40	11.50	6.200
1.65	333.5	258.3	210.4	170.1	132.0	89.40	67.90	49.10	40.80	30.70	18.40	10.90	6.000
1.70	312.0	241.7	198.6	162.8	125.0	85.20	65.00	46.70	38.90	29.20	17.50	10.50	5.850
1.75	291.0	225.4	188.5	154.0	118.0	81.40	61.00	44.00	37.00	27.40	16.70	10.20	5.650
1.80	265.0	211.1	179.0	146.4	113.0	77.00	57.50	41.50	34.90	26.20	16.20	10.00	5.500
Constant Power Discharge Data (77°F ,25) -----W/cell													
Cut-off Voltage (V/cell)	Discharge Time (minute)												
	5	10	15	20	30	45	60	90	120	180	300	600	1200
1.60	591.2	470.0	388.5	315.0	238.7	168.4	136.3	98.00	80.00	60.00	38.80	23.00	11.50
1.65	562.0	447.5	380.0	306.4	231.7	164.0	132.8	95.00	77.00	58.50	38.00	22.50	11.30
1.70	531.1	424.4	367.7	297.5	226.7	160.5	129.6	92.50	75.00	56.50	37.30	22.00	11.00
1.75	497.6	400.2	354.3	286.7	218.4	156.0	126.7	89.50	73.00	55.00	36.50	21.50	10.80
1.80	466.7	383.7	341.0	278.0	210.9	149.5	123.4	87.00	71.00	53.40	35.50	21.20	10.60

Performance curve :

Fig.1 Charging curve for fully discharged battery

Fig.2 Capacity VS temperature

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Note : Specifications are subject to change without further notice.