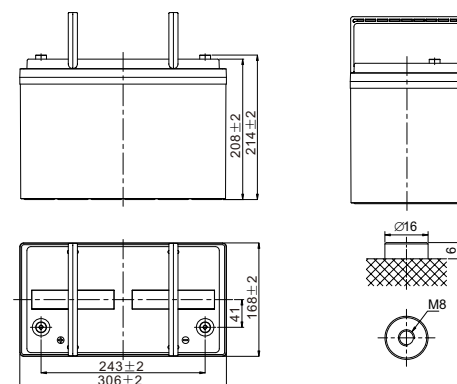


Specifications

Rated Voltage	12V	
Nominal Capacity	95.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	306±2mm (12.05 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±2mm (8.19 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	30.6 Kg (67.5 lbs)	
Terminal	T6-A	
Container Material	ABS	
Rated Capacity (25°C)	98.8 Ah	(20hr, 4.94A, 1.80V/cell)
	95.0 Ah	(10hr, 9.50A, 1.80V/cell)
	85.5 Ah	(5hr, 17.1A, 1.75V/cell)
	78.0 Ah	(3hr, 26.0A, 1.75V/cell)
	60.0 Ah	(1hr, 60.0A, 1.60V/cell)
Max. Discharge Current	1140A (5s)	
Internal Resistance (25°C)	Approx 5.8mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 28.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 28.5A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	SY series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	137.7	119.4	93.9	84.8	61.4	52.5	32.0	23.5	18.4	16.0	13.92	10.8	8.98	4.76
1.80V/cell	156.2	135.3	106.2	92.4	65.0	54.4	33.1	25.5	19.7	16.8	14.95	11.4	9.50	4.94
1.75V/cell	169.5	146.4	114.6	94.2	67.4	57.1	34.8	26.0	20.0	17.1	15.15	11.5	9.60	4.99
1.70V/cell	180.7	155.5	121.5	96.1	68.7	58.2	35.5	26.5	20.4	17.4	15.15	11.6	9.69	5.04
1.65V/cell	186.5	160.0	124.8	97.5	69.7	59.1	36.0	26.7	20.7	17.8	15.26	11.8	9.79	5.10
1.60V/cell	192.8	165.1	128.0	99.0	70.8	60.0	36.5	27.0	20.9	18.0	15.36	12.0	9.88	5.16

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	259.0	226.1	178.6	162.1	118.1	101.6	62.3	45.9	36.1	31.5	27.54	21.5	17.9	9.49
1.80V/cell	289.8	252.8	199.8	175.1	124.2	104.7	64.0	49.6	38.4	33.0	29.49	22.6	18.7	9.82
1.75V/cell	309.2	269.9	213.2	177.3	128.0	109.4	67.1	50.4	39.0	33.5	29.59	22.6	18.8	9.90
1.70V/cell	325.1	283.7	224.1	179.3	129.6	111.0	68.1	51.2	39.6	33.9	29.69	23.0	19.0	10.0
1.65V/cell	330.4	288.3	227.8	180.6	130.8	112.0	68.9	51.5	40.0	34.5	29.80	23.2	19.2	10.1
1.60V/cell	335.0	292.3	231.0	181.4	131.5	112.8	69.4	51.7	40.3	34.8	29.90	23.5	19.4	10.2

Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

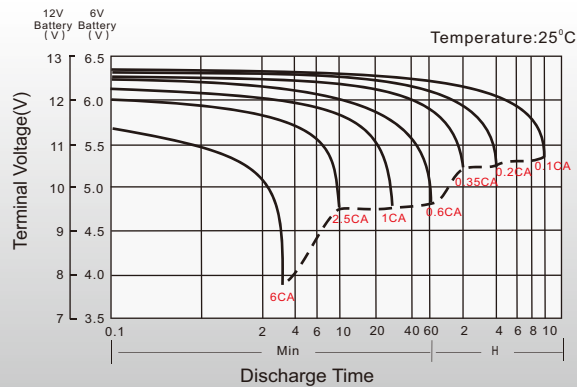
General Features

- 10 years design life(25°C)
- Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed
- Using oxygen recombination technology: maintenance-free
- Unique vent valve design: control water losing, prevent air and spark going inside

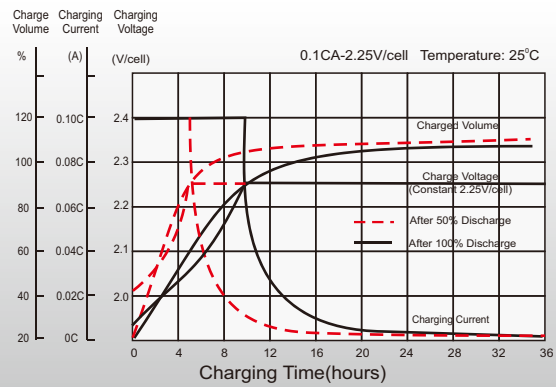
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

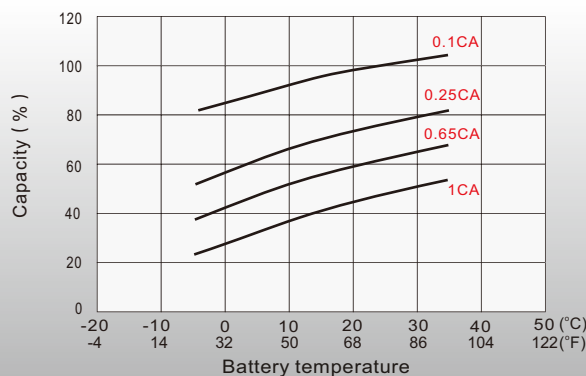
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

