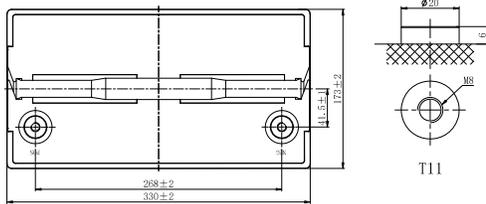
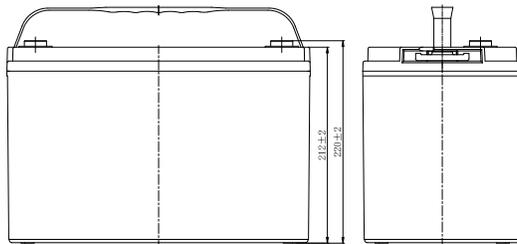




# EV SERIES-GENERAL PURPOSE

## EV-12V100Ah (12V100Ah)



### CHARACTERISTICS

Specifications	
<b>Item</b>	12V
Rated Voltage	C10, 1.80V/cell 100Ah
Nominal Capacity (25°C)	Length 330mm (13.0inches)
	Width 173mm (6.81inches)
Dimension	Container Height 212mm (8.35inches)
	Total Height 220mm (8.66inches)
	Approx Weight 30.6kg (67.5lbs)
Terminal	T11(M8)
Container Material	ABS (UL94 HB)
Short-circuit current	2000A
Internal Resistance (25°C)	Approx 4.9 mΩ (Fully charged)
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Max.Charging Current (25°C)	0.3C
Charge voltage (25°C)	Standby Use 2.25-2.30V/cell
	Cycle Use 2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C
	-5mV/cell/°C
Effect of temp. to Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%

≤3% per month at 25°C (77°F).

EV series batteries may be stored 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.

Self Discharge

### DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	199.7	142.0	128.3	100.9	90.2	66.0	55.9	40.5	34.0	25.0	19.6	17.0	15.0	11.5	9.55	5.07
1.80V/cell	227.2	161.2	145.4	114.0	98.2	69.9	57.9	41.9	35.2	27.1	20.9	17.9	16.1	12.1	10.0	5.25
1.75V/cell	246.7	174.8	157.4	123.1	100.2	72.4	60.7	44.0	37.0	27.6	21.3	18.2	16.2	12.2	10.1	5.30
1.70V/cell	263.8	186.4	167.1	130.5	102.2	73.9	61.9	44.9	37.7	28.2	21.7	18.5	16.3	12.4	10.2	5.36
1.67V/cell	273.0	192.3	172.0	134.1	103.7	74.9	62.8	45.5	38.3	28.4	22.0	18.9	16.4	12.6	10.3	5.42
1.60V/cell	282.6	198.9	177.3	137.6	105.2	76.0	63.8	46.2	38.9	28.7	22.3	19.1	16.5	12.7	10.5	5.49
Constant Power Discharge (Watts/cell) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	373.0	267.2	242.9	191.9	172.3	126.8	108.1	78.5	66.2	48.8	38.4	33.5	29.6	22.9	19.0	10.1
1.80V/cell	417.3	298.9	271.7	214.6	186.2	133.5	111.3	80.8	68.0	52.7	40.9	35.1	31.7	24.0	19.9	10.4
1.75V/cell	445.4	319.0	289.9	229.1	188.5	137.5	116.3	84.6	71.3	53.6	41.5	35.6	31.8	24.1	20.0	10.5
1.70V/cell	468.2	335.3	304.8	240.8	190.7	139.3	118.0	85.8	72.5	54.4	42.1	36.1	31.9	24.4	20.2	10.6
1.67V/cell	475.8	340.8	309.8	244.7	192.0	140.5	119.0	86.7	73.2	54.7	42.6	36.7	32.0	24.7	20.4	10.7
1.60V/cell	482.5	345.6	314.1	248.1	192.8	141.2	119.9	87.4	73.8	54.9	42.9	37.0	32.1	25.0	20.6	10.9

### APPLICATIONS

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

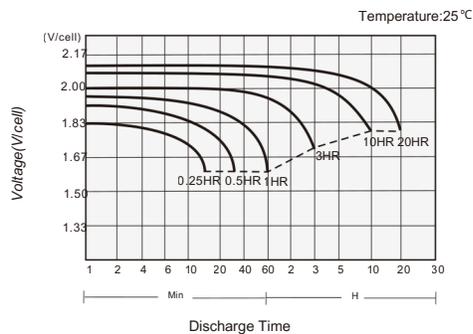
### GENERAL FEATURES

- 10 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

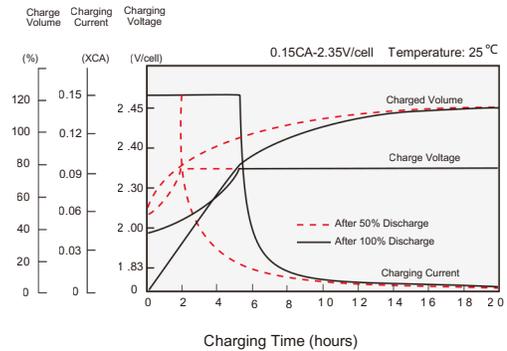
### STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Certified production facilities, IATF 16949, ISO 45001, ISO 9001 and ISO 14001.

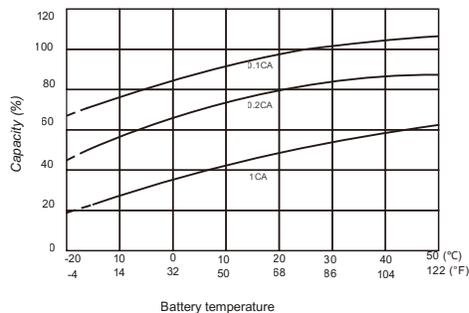
### Discharge Characteristics



### Charging Characteristics



### Effects of Temperature on Capacity



### Self Discharge Characteristics

