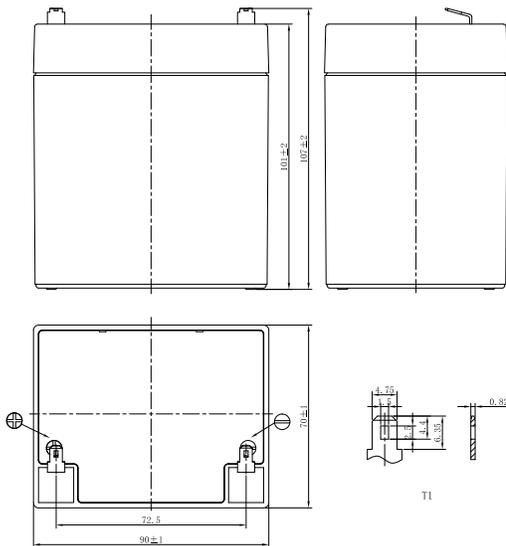




EV SERIES-GENERAL PURPOSE

EV-12V5Ah (12V5Ah)



CHARACTERISTICS

Specifications		
Item	12V	
Rated Voltage	C20, 1.75V/cell 5Ah	
Nominal Capacity (25°C)	Length	90mm (3.54inches)
	Width	70mm (2.76inches)
Dimension	Container Height	101mm (3.98inches)
	Total Height	107mm (4.21inches)
	Approx Weight	1.39kg (3.06lbs)
Terminal	T1	
Container Material	ABS (UL94 HB)	
Short-circuit current	140A	
Internal Resistance (25°C)	Approx 48 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	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%

≤3% per month at 25°C (77°F).

Self Discharge

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.

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	12.5	9.18	7.28	5.94	4.52	3.32	2.71	2.04	1.70	1.21	0.973	0.827	0.708	0.556	0.454	0.244
1.80V/cell	13.5	9.65	7.57	6.12	4.63	3.38	2.76	2.08	1.73	1.23	0.987	0.839	0.717	0.563	0.459	0.247
1.75V/cell	14.6	10.1	7.84	6.31	4.74	3.45	2.81	2.11	1.76	1.25	1.00	0.850	0.726	0.570	0.465	0.250
1.70V/cell	15.7	10.6	8.12	6.49	4.85	3.51	2.86	2.15	1.79	1.27	1.01	0.861	0.736	0.577	0.471	0.252
1.67V/cell	16.4	10.9	8.29	6.61	4.92	3.56	2.89	2.17	1.80	1.28	1.02	0.867	0.741	0.581	0.474	0.254
1.60V/cell	17.8	11.5	8.67	6.86	5.07	3.65	2.96	2.22	1.84	1.30	1.04	0.883	0.754	0.591	0.481	0.257

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	23.7	17.6	14.0	11.4	8.73	6.43	5.27	3.99	3.34	2.39	1.92	1.63	1.40	1.10	0.902	0.489
1.80V/cell	25.6	18.3	14.5	11.7	8.91	6.54	5.35	4.05	3.38	2.42	1.94	1.65	1.42	1.12	0.912	0.494
1.75V/cell	27.4	19.1	14.9	12.0	9.09	6.64	5.43	4.10	3.43	2.45	1.96	1.67	1.43	1.13	0.923	0.499
1.70V/cell	29.3	19.9	15.4	12.3	9.25	6.74	5.51	4.16	3.47	2.48	1.99	1.69	1.45	1.14	0.933	0.504
1.67V/cell	30.4	20.4	15.6	12.5	9.36	6.81	5.55	4.19	3.50	2.50	2.00	1.70	1.46	1.15	0.939	0.507
1.60V/cell	32.8	21.4	16.2	12.9	9.59	6.95	5.66	4.26	3.55	2.54	2.03	1.73	1.48	1.17	0.953	0.515

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

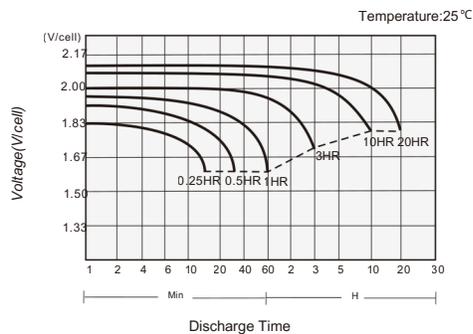
GENERAL FEATURES

- 5 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

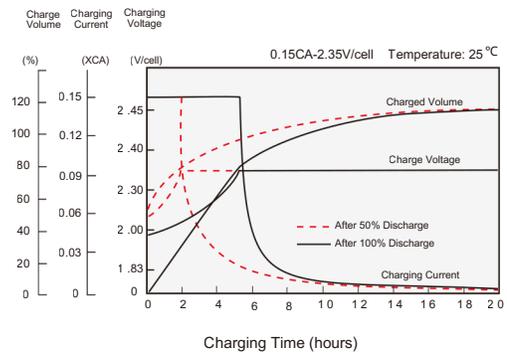
STANDARDS

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

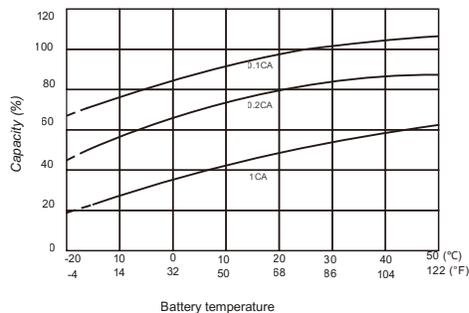
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

