



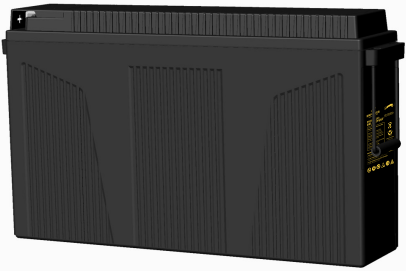
EMGS Series - GEL BATTERY

EMGS12-200(12V200Ah)

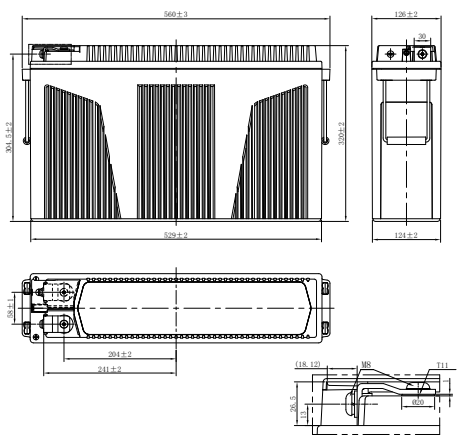


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₂₀ , 1.75V/cell	200Ah
Dimension	Length	560±2mm (22.05 inches)
	Width	126±2mm (4.96 inches)
	Container Height	320±2mm (12.60 inches)
	Total Height	320±2mm (12.60 inches)
Approx Weight	55.7kg (122.8 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity(25°C)	200.0 Ah	C20(10.0A, 1.75V/cell)
	188.0 Ah	C10(18.8A, 1.75V/cell)
	162.0 Ah	C5(32.4A, 1.75V/cell)
	147.3 Ah	C3(49.1A, 1.75V/cell)
	124.1 Ah	C1(124.1A, 1.60V/cell)
Max. Discharge Current	2000A (5s)	
Internal Resistance(25°C)	Approx 4.0mΩ	
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)	
Standby Use	Initial Charging Current less than 50A. Voltage	
	13.5V~13.8V at 25°C(77°F) Temp. Coefficient -20mV/°C	
Cycle Use	Initial Charging Current less than 50A. Voltage	
	14.1V~14.4V at 25°C(77°F) Temp. Coefficient -30mV/°C	
Effect of Temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	EMGS 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	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	154.6	115.4	97.5	73.1	58.5	44.1	35.2	29.4	25.5	20.7	17.3	9.31
1.80V/cell	174.8	129.0	107.9	79.9	63.7	47.7	37.9	31.6	27.4	22.2	18.5	9.90
1.75V/cell	182.8	134.3	111.9	82.7	65.6	49.1	38.9	32.4	27.9	22.6	18.8	10.0
1.70V/cell	190.7	139.3	116.0	85.5	67.7	50.4	39.8	33.1	28.5	23.0	19.1	10.1
1.67V/cell	195.6	142.5	118.4	87.0	68.8	51.2	40.4	33.5	28.9	23.3	19.3	10.2
1.60V/cell	206.6	149.9	124.1	90.9	71.7	53.1	41.8	34.6	29.7	23.8	19.7	10.4

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

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	298.8	223.8	189.5	142.5	114.4	86.6	69.1	57.8	50.3	41.0	34.3	18.6
1.80V/cell	335.0	248.4	208.3	155.1	123.8	93.3	74.2	62.1	53.8	43.8	36.5	19.6
1.75V/cell	347.2	256.5	214.4	159.3	126.9	95.3	75.8	63.4	54.8	44.5	37.1	19.8
1.70V/cell	359.2	264.1	220.8	163.7	130.3	97.7	77.4	64.6	55.8	45.2	37.6	20.1
1.67V/cell	366.3	268.6	224.3	166.0	131.9	98.8	78.3	65.2	56.4	45.6	37.9	20.2
1.60V/cell	382.1	279.5	233.0	172.1	136.5	101.8	80.5	67.0	57.7	46.5	38.6	20.6



EMGS Series - GEL BATTERY

EMGS12-200(12V200Ah)



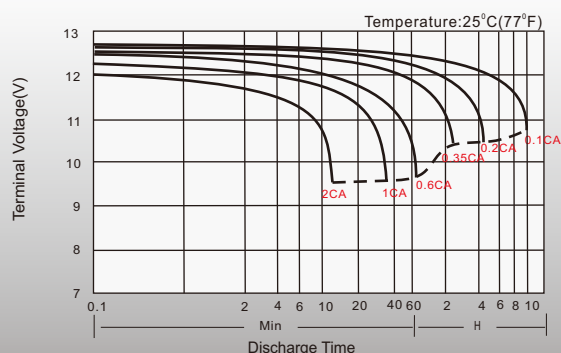
Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power SystEMGS (EPS)
- EMGSergency backup power supply
- Alarm and security systemEMGS
- Communication power supply
- DC power supply
- Auto control systemEMGS

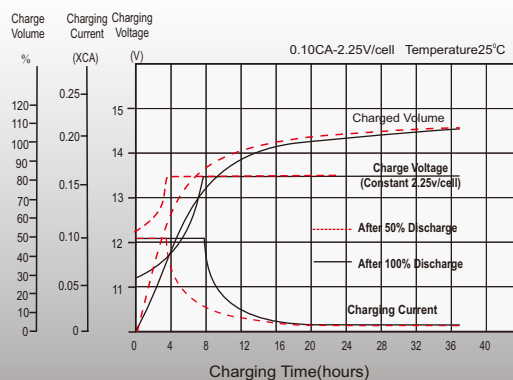
General Features

- 10 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

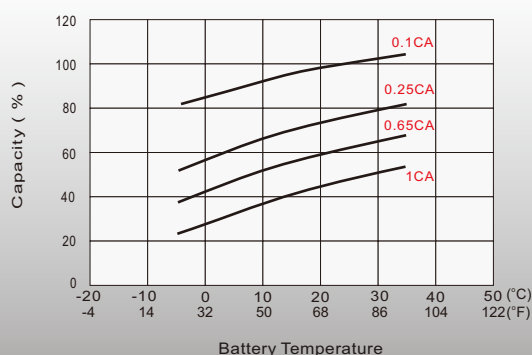
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

