

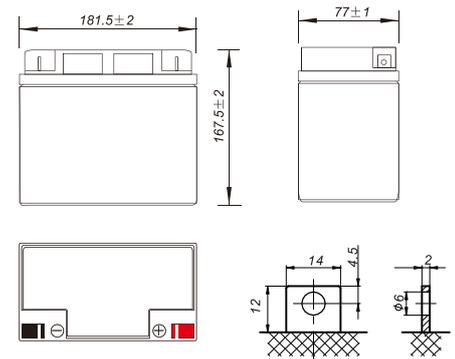
CS Series-Long Standby Life CS12-18(12V18Ah)

Specifications

Rated Voltage	12V	
Nominal Capacity	17.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	181.5±2mm (7.14 inches)
	Width	76.5±1mm (3.01 inches)
	Container Height	167.5±2mm (6.59 inches)
	Total Height	167.5±2mm (6.59 inches)
Approx Weight	4.90 Kg (10.8 lbs)	
Terminal	T3	
Container Material	ABS	
Rated Capacity (25°C)	17.0 Ah	(20hr, 0.850A, 1.75V/cell)
	16.08Ah	(10hr, 1.608A, 1.75V/cell)
	14.45Ah	(5hr, 2.89A, 1.75V/cell)
	12.69Ah	(3hr, 4.23A, 1.75V/cell)
	10.71Ah	(1hr, 10.71A, 1.60V/cell)
Max. Discharge Current	255A (5s)	
Internal Resistance (25°C)	Approx 18mΩ	
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 5.1A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Initial Charging Current less than 5.1A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Standby Use	Initial Charging Current less than 5.1A. 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	CS 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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.58	32.62	25.38	20.92	15.59	11.62	9.69	7.14	5.65	4.10	3.29	2.81	2.42	1.92	1.571	0.831
1.80V/cell	51.17	34.58	26.64	21.75	16.08	11.93	9.93	7.29	5.75	4.17	3.33	2.86	2.46	1.95	1.592	0.841
1.75V/cell	53.91	35.97	27.52	22.36	16.50	12.19	10.13	7.43	5.86	4.23	3.38	2.89	2.49	1.97	1.608	0.850
1.70V/cell	56.46	37.41	28.44	23.01	16.92	12.46	10.32	7.56	5.94	4.30	3.43	2.93	2.52	1.99	1.624	0.857
1.67V/cell	58.41	38.46	29.14	23.48	17.21	12.66	10.48	7.65	6.01	4.34	3.46	2.96	2.54	2.01	1.636	0.864
1.60V/cell	61.97	40.09	30.14	24.18	17.68	12.98	10.71	7.81	6.13	4.42	3.52	3.00	2.58	2.03	1.657	0.873

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	90.01	62.08	48.61	40.30	30.15	22.54	18.85	13.95	11.06	8.06	6.48	5.56	4.80	3.81	3.122	1.662
1.80V/cell	95.86	65.35	50.70	41.68	30.94	23.06	19.26	14.20	11.24	8.18	6.56	5.63	4.87	3.86	3.162	1.682
1.75V/cell	99.91	67.49	52.06	42.60	31.60	23.47	19.57	14.42	11.41	8.29	6.64	5.69	4.91	3.90	3.190	1.700
1.70V/cell	103.60	69.70	53.47	43.60	32.25	23.91	19.87	14.63	11.55	8.39	6.72	5.76	4.97	3.94	3.221	1.714
1.67V/cell	106.30	71.28	54.62	44.40	32.75	24.23	20.14	14.78	11.65	8.46	6.77	5.81	5.01	3.97	3.242	1.727
1.60V/cell	110.61	73.36	56.11	45.50	33.47	24.68	20.50	15.04	11.85	8.60	6.88	5.88	5.07	4.02	3.281	1.746

CS Series-Long Standby Life CS12-18(12V18Ah)

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

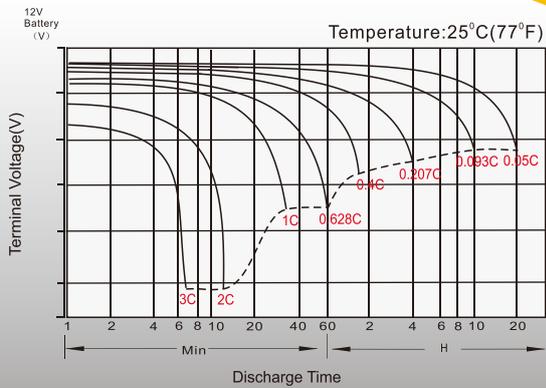
General Features

- 10 ~ 12 years design life(20°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

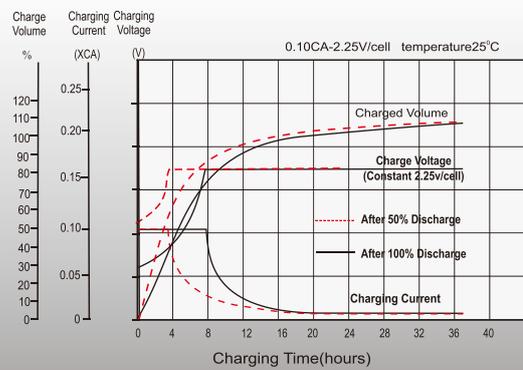
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified

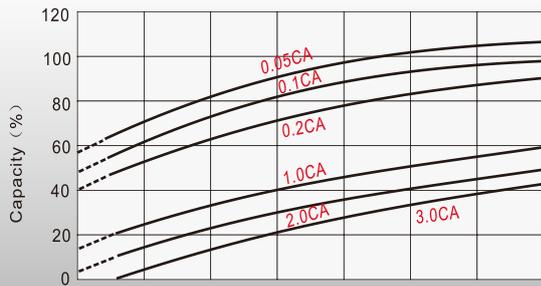
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life

