

CP12210 12V 21Ah (20hr) Sealed Lead Acid (SLA) Battery

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



Battery Construction

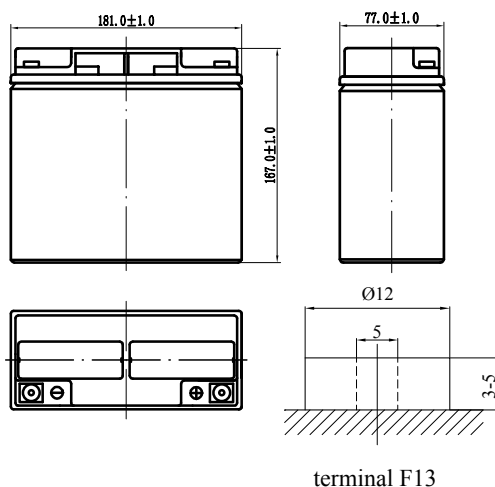
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Valve Regulated Lead Acid (VRLA) battery

Dimensions and Weight

Length(mm / inch)	182 / 7.16
Width(mm / inch)	77 / 3.03
Height(mm / inch)	166 / 6.53
Total Height(mm / inch)	166 / 6.53
Approx. Weight(Kg / lbs)	5.88 / 13



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F (25°C)	
20 hour rate (1.00A, 10.5V)	21Ah
10 hour rate (1.95A, 10.5V)	19.5Ah
5 hour rate (3.57A, 10.5V)	17.8Ah
1 hour rate (14.6A, 9.6V)	14.6Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	11.7mOhms
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F (25°C)	300A(5s)
Short Circuit Current	950A
Charge Methods: Constant Voltage Charge 77°F (25°C)	
Cycle use	14.4-14.8V
Maximum charging current	6.8A
Temperature compensation	-30mV/°C
Standby use	13.5-13.8V
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

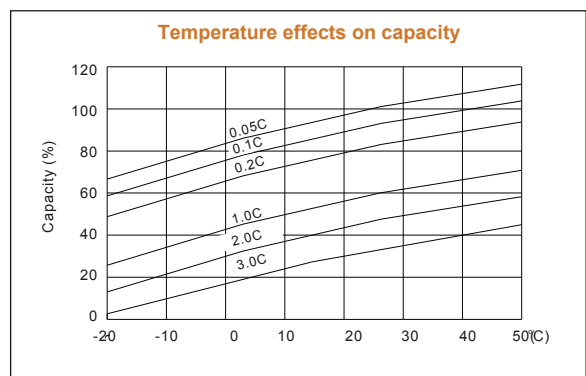
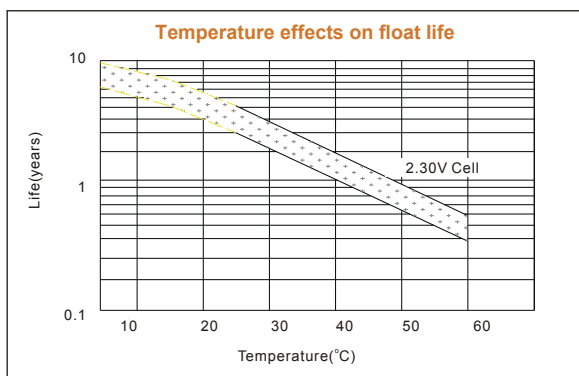
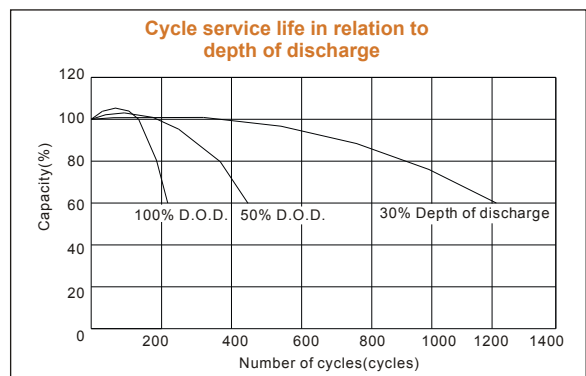
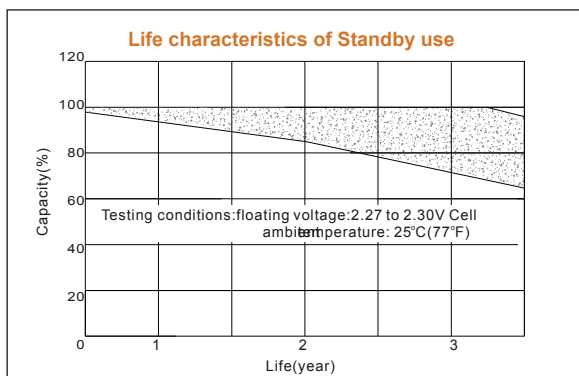
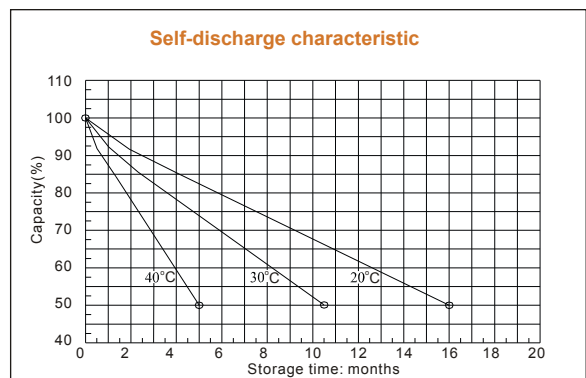
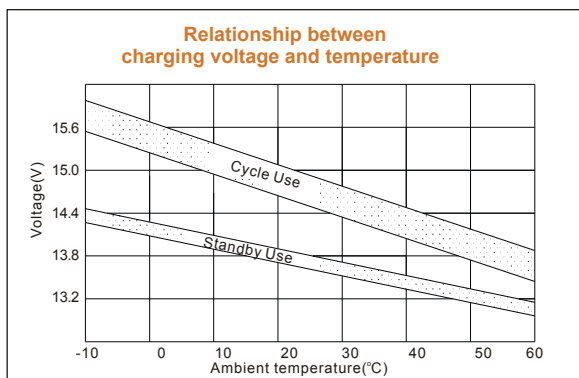
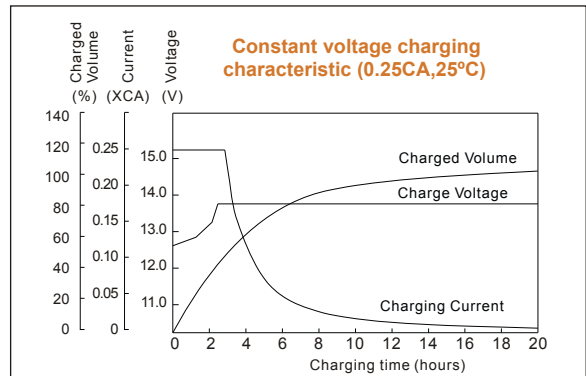
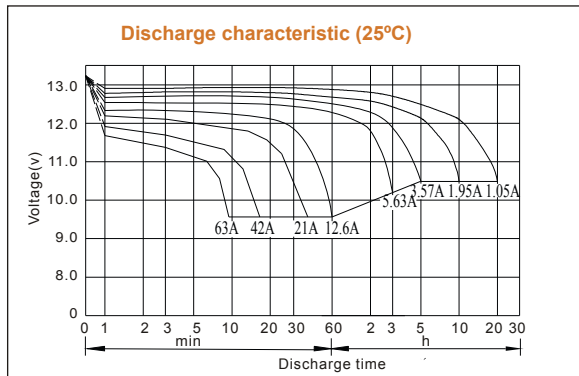
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	72.8	49.7	38.4	21.7	14.6	5.52	3.72	2.05	1.10
1.65V	71.1	48.4	37.5	21.4	14.2	5.44	3.66	2.02	1.08
1.70V	69.3	47.2	36.7	21.0	14.0	5.36	3.59	1.99	1.06
1.75V	67.6	46.0	35.8	20.7	13.8	5.28	3.57	1.95	1.05
1.80V	65.9	44.7	34.9	20.4	13.6	5.20	3.46	1.91	1.02

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	147	102	81.5	44.6	34.2	26.6	14.9	10.3	7.05
1.65V	143	100	80.1	43.9	33.8	26.3	14.7	10.2	6.96
1.70V	138	98.2	78.7	43.3	33.4	26.0	14.5	10.1	6.88
1.75V	133	96.3	77.3	42.7	33.0	25.8	14.4	10.0	6.79
1.80V	128	94.9	76.0	42.0	32.6	25.5	14.2	9.9	6.78

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

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