

12V, 200AH Valve regulated Lead Crystal Battery

Solar Battery

LifePO4 Battery | Gel Battery | OPzV/OPzS Battery

CE

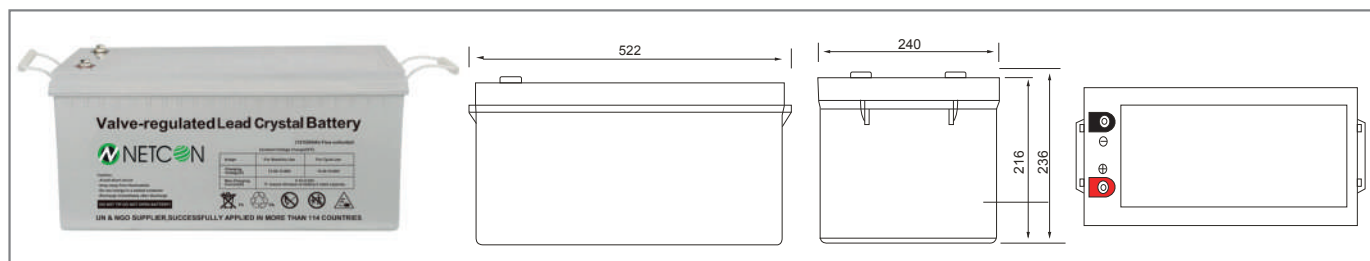
RoHS

UN38.3

MSDS



Netcon Solar Lead Crystal batteries are engineered to offer exceptional performance, efficiency, and durability, making them an ideal choice for both residential and commercial applications. With a focus on renewable energy, Netcon's solar batteries are built to store energy efficiently, ensuring a stable power supply. Application used are Solar Street Lights, LED Street Lights, Solar Battery & UPS Battery, Solar Panel*Advantages of Lead Valve Regulated Crystal Batteries*Is, Solar Controllers, Solar Home Lighting Kits, etc.



FEATURES OF LEAD VALVE REGULATED CRYSTAL BATTERIES:

► Sealed Construction:

The sealed design eliminates the need for a separate battery room or complex ventilation systems, making installation simpler and safer.

► Absorbed Glass Mat (AGM) Technology:

Incorporates AGM separators that hold the electrolyte in place, preventing leakage and enabling the battery to operate in any position without risk of acid spillage.

► Advanced Lead-Calcium Alloy Plates:

Uses advanced lead-calcium alloy grids, which enhance battery life, reduce gas emissions, and improve charge retention.

► Pressure Relief Valves:

Equipped with pressure relief valves that release excess gas, preventing internal pressure build-up and extending battery life.

► High Purity Electrolyte:

Utilizes a high-purity electrolyte, which reduces the rate of sulfation and extends the overall lifespan of the battery.

► Robust Casing:

Features a durable and corrosion-resistant casing that protects the internal components from harsh environmental conditions.

► Float and Boost Charging Compatibility:

Supports both float and boost charging modes, making it versatile for various charging protocols depending on the application.

► Compact Design:

The compact form factor makes these batteries ideal for installations where space is at a premium, such as in telecommunications or portable power systems.

Lead VRLA Crystal batteries combine advanced technology with robust design to provide reliable, safe, and efficient energy storage solutions across a wide range of applications.

SPECIFICATION

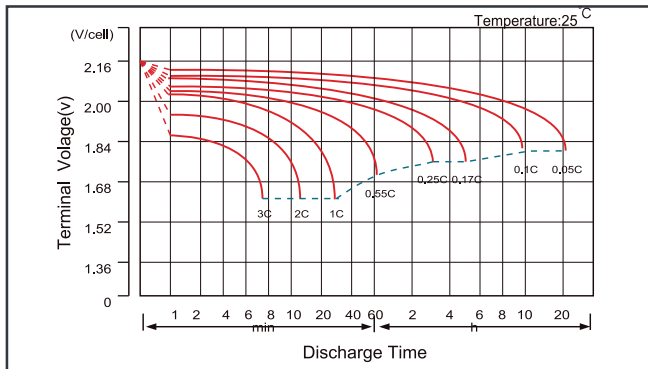
Battery Model	Nominal Voltage	12V			
	Rated Capacity (10 Hour rate)	200Ah			
	Cells per Battery	6			
Dimension	Length	Width	Height	Total weight	
	522 mm	240 mm	216 mm	236 mm	
Approx. Weight	58.00 Kg				
Internal Resistance	Full charged at 25°C (77°F) Approx 4.0 mΩ				
Max. Discharge Current	1760a (5s)				
Floating Design Life @25°C(77°F)	10 years				
Capacity @ 25°C (77°F)	10 Hour rate (22.00A/10.8V)	5 Hourrate (37.40A/10.5V)	3 Hour rate (55.00A/10.5V)	1 Hour rate (132.00A/10.5V)	
	220Ah	187Ah	165Ah	32Ah	
Capacity affected by Temp (10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	15°C (5°F)	
	102%	100%	85%	65%	
Self Discharge @ 25°C (77°F)	After 3 months Storage	After 6 months Storage	After 12 months Storage		
	93%	84%	65%		
Charge Method @ 25°C (77°F)	Cycle use	14.50 - 14.90V (Initial charging Current less than 66.00A)			
	Float use	13.60 - 13.80V			

LEAD CRYSTAL BATTERY

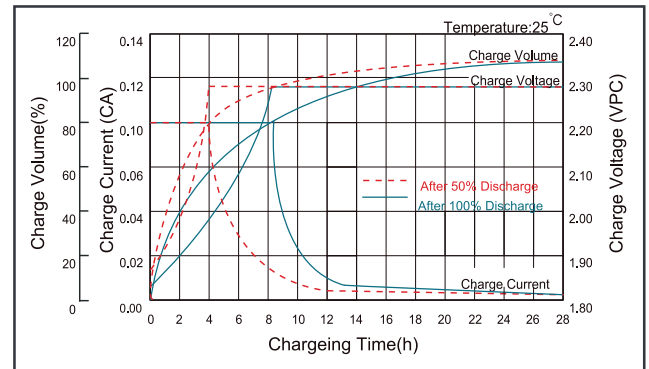


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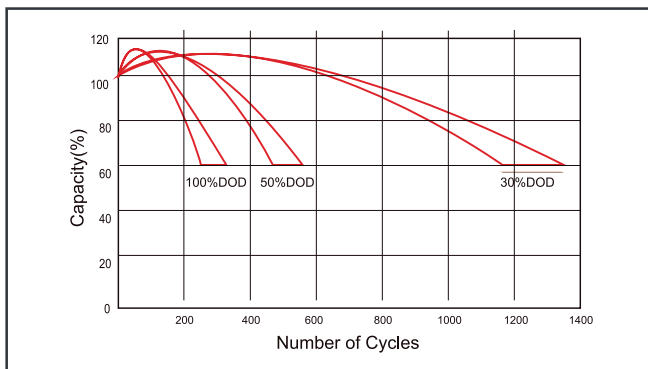
Discharge characteristic Curve



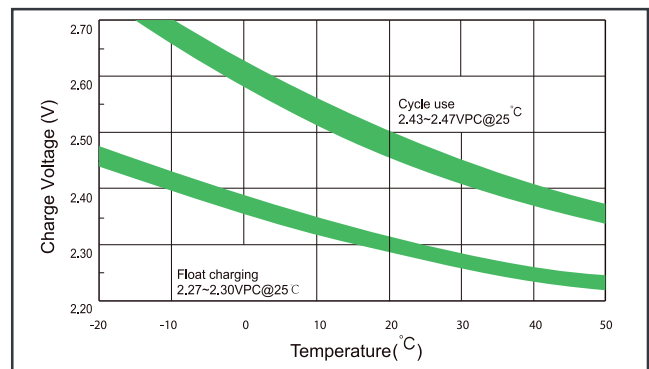
Charge Characteristic Curve For Standby Use



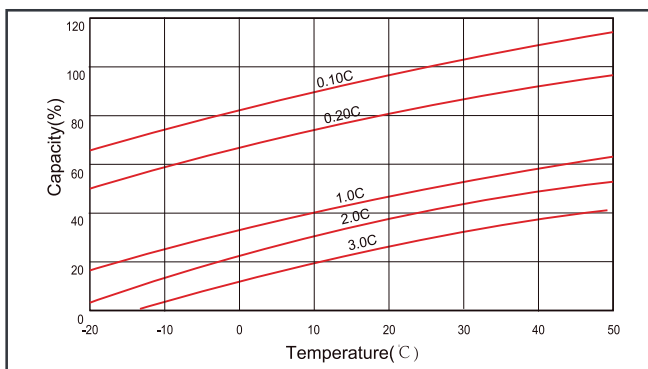
Cycle service life in relation to depth of discharge



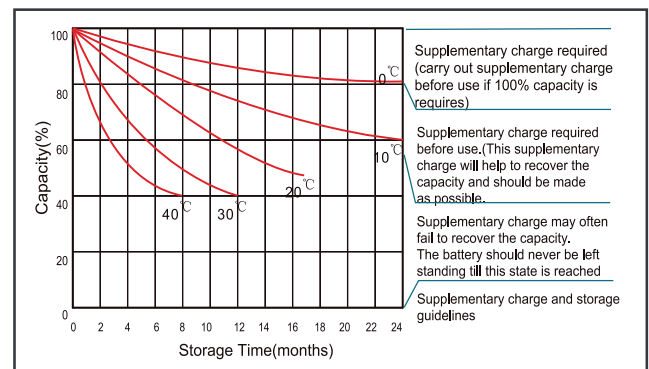
Relationship Between Charging Voltage And Temperature



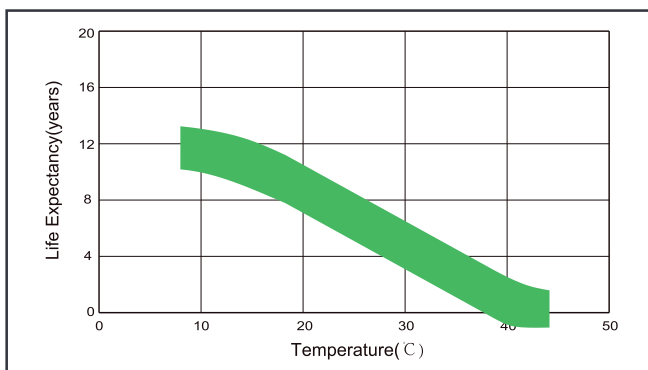
Temperature Effects On Capacity



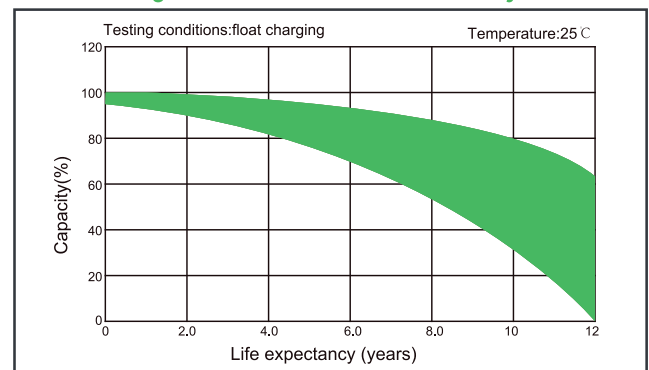
Storage Characteristics



Effect Of emperature On Long Term Life



Charge Characteristic Curve For Standby Use



CONSTANT CURRENT(AMP) AND CONSTANT POWER(WATT) DISCHARGE TABLE AT 25°C (77°F)

F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	792.00	484.00	385.00	253.00	132.00	77.00	57.20	46.20	38.59	25.48	24.20	12.54
	w	8395.20	5140.08	4119.50	2732.40	1438.80	839.30	629.20	508.20	424.51	282.85	268.62	141.09
10.20V	A	726.00	485.83	353.83	240.17	136.40	73.88	56.10	44.00	37.86	25.08	23.10	12.32
	W	7913.40	5392.75	3945.24	2701.89	1534.50	834.88	633.93	499.40	429.68	284.66	262.20	139.83
10.50V	A	673.29	464.20	330.00	232.83	132.00	72.42	55.00	41.80	37.40	24.75	22.66	12.17
	W	7406.21	5222.25	3729.00	2654.30	1504.80	829.18	629.75	480.70	430.10	284.64	260.59	139.92
10.80V	A	613.07	443.67	308.00	222.20	127.60	70.58	53.90	41.07	35.75	24.11	22.00	12.01
	w	6743.73	5057.80	3526.60	2566.41	1473.78	815.23	625.24	478.43	416.48	280.85	256.30	139.94
11.10V	A	530.20	418.00	286.00	206.80	121.00	68.75	51.70	40.33	34.19	23.47	21.45	11.88
	w	5991.26	4827.90	3317.60	2419.56	1415.70	804.39	607.49	475.93	403.46	276.91	253.11	140.18

ORDERING INFORMATION

Part No.	Description
NTVR-C200AH	Netcon 12V, 200AH Valve regulated Lead Crystal Battery