



OREMA POWER CO.,LTD. UN120-12H(12V120Ah)

UN Series General Battery

OREMA UN Series VRLA batteries are designed with AGM technology, high performance plates and technology to give extra power output for common power backup system. UN series batteries are the general purpose with 10-12 years floating design life at 25°C

Applications

- Uninterruptible Power Supply (UPS)
- Emergency backup power supply
- Auto control system
- Communication power supply
- Alarm and security system
- Electric Power System (EPS)

General Features

- 10-12 years design life(25°C)
- Non-spillable construction
- Sealed and maintenance-free
- High reliability and stability
- High purity raw material: long life and low self-discharge

Standards

- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001, ISO9001 and ISO14001 certified production facilities

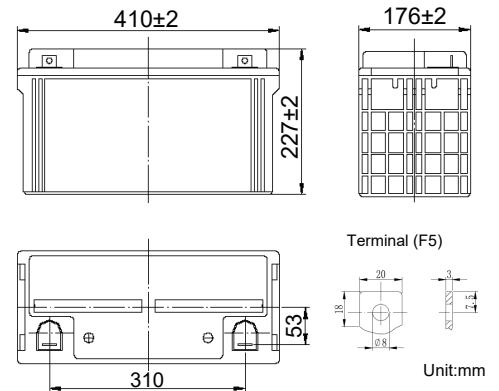
Specifications

Rated Voltage	12V	
Nominal Capacity	120Ah	(C ₁₀ , 10.8V)
Approx Weight	35.5kg±3%(78.24lbs)	
Terminal	F5	
Rated Capacity(25°C)	130 Ah	(20hr, 6.5A, 10.5V)
	122 Ah	(10hr, 12.2A, 10.8V)
	100.5 Ah	(5hr, 20.1A, 10.5V)
	87 Ah	(1hr, 87A, 9.6V)
Max. Discharge Current	1200A(5s)	
Max. Charge Current	30A	
Internal Resistance(25°C)	Approx 4.5mΩ	
Operating Temp. Range	Discharge	-20~60°C(-4~140°F)
	Charge	-10~50°C(14~122°F)
	Storage	-20~60°C(-4~140°F)
Nominal operating temperature	25±5°C	
Charge Voltage @25°C(77°F)	Cycle Use	Initial Charging Current less than 30A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 30A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Temperature effects on capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
	-15°C (5°F)	65%
Self Discharge(25°C)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	82%
	Capacity after 12 months storage	65%



Dimensions

unit:mm



Length	410±2mm (16.1 inches)
Width	176±2mm (6.93 inches)
Container Height	227±2mm (8.94 inches)
Total Height	227±2mm (8.94 inches)

Battery Construction

Component	Positive plate	Negative plate	Container	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS(UL94-HB) or FR(UL94-V0)	Rubber	Copper	Fiberglass	Sulfuric acid

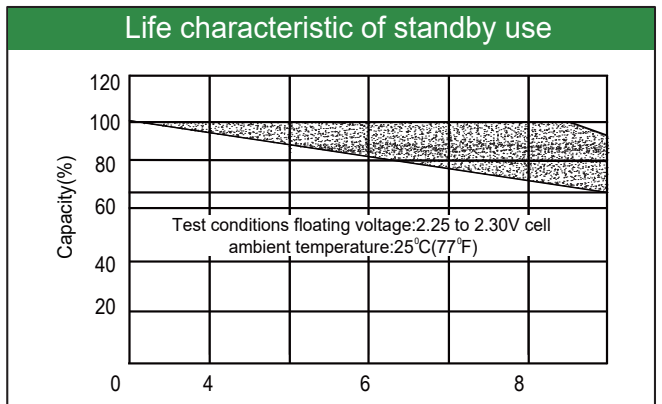
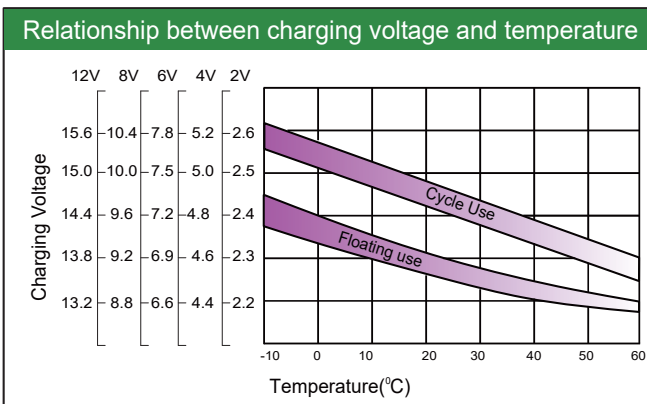
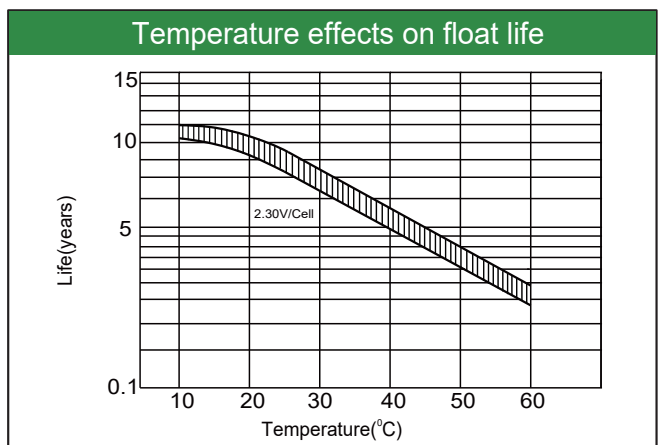
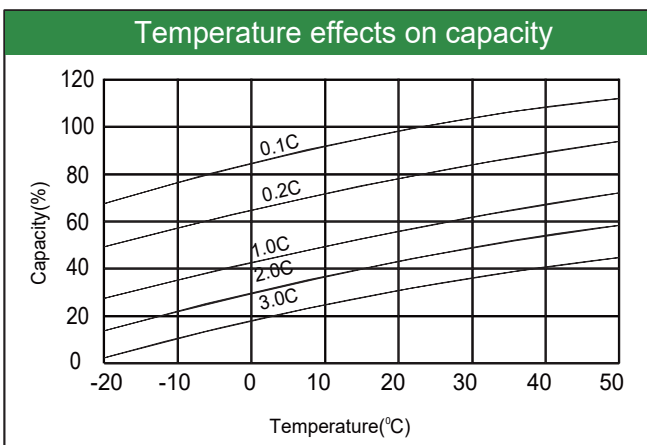
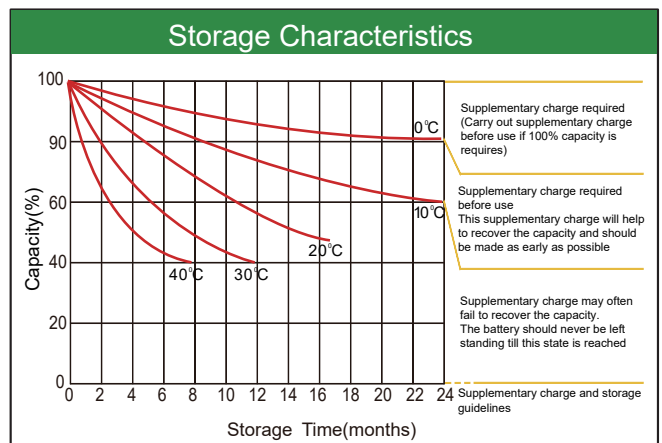
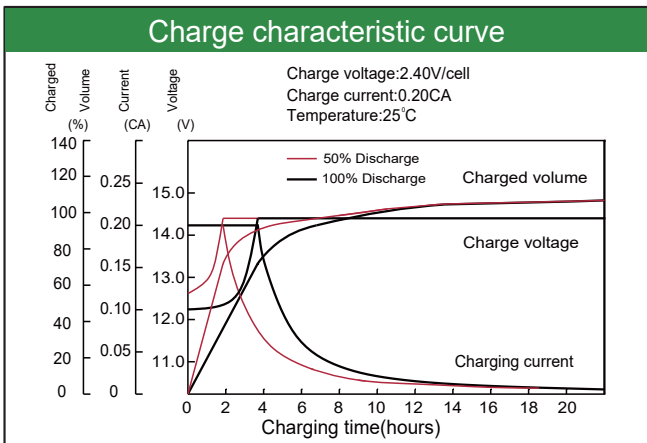
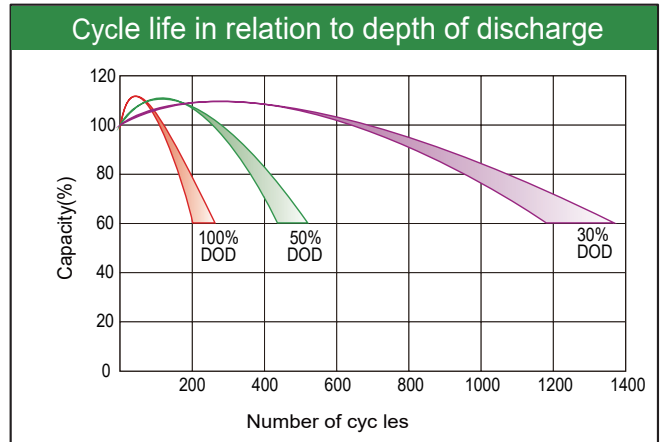
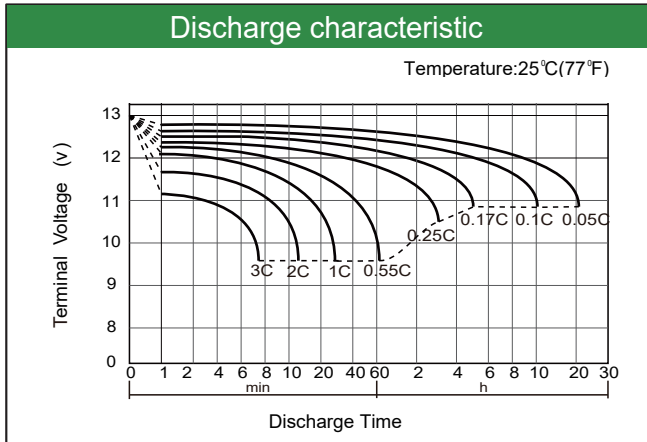
Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	/	305	235	145	87.0	34.5	22.1	13.0	6.65
1.65V	/	290	225	140	84.8	33.4	21.5	12.9	6.60
1.70V	/	274	214	134	82.4	32.2	20.8	12.7	6.55
1.75V	/	257	203	128	79.8	31.0	20.1	12.5	6.50
1.80V	/	239	190	121	77.0	29.7	19.3	12.2	6.40

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

E.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	/	520	435	275	203	165	95.2	70.6	41.6
1.65V	/	500	421	267	197	162	92.7	68.9	40.6
1.70V	/	478	406	258	190	156	90.2	67.1	39.5
1.75V	/	455	390	249	183	151	87.7	65.3	38.4
1.80V	/	430	372	239	176	146	85.2	63.4	37.2

Note: The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum.



Factory address: Datang industrial park, xinfeng county, Ganzhou city Jiangxi Province, China
 Sales office: RM301 No.2 Building Zhida industrial park Longping west road, Longgang district, Shenzhen China
 TEL: +86-755-84898340 sales@oremabattery.com www.oremabattery.com