

# CE 42-12 ▶ 12V 42AH

SMF VRLA RECHARGEABLE BATTERY



## APPLICATIONS

- UPS Systems
- Banks, Finance & Data centers
- Central Battery Systems
- Hospital & Laboratories
- Emergency Lighting
- Fire Alarm Safety & Security Systems

## COMPLIANCE

- ✓ Complies to JISC 8702
- ✓ Complies to IS15549
- ✓ Complies to IEC 60896-22

## QUALITY STANDARDS

Manufactured in best-in-class facility certified to

- ✓ ISO 9001: 2015
- ✓ ISO 14001: 2015
- ✓ OHSAS 45001: 2018

## TECHNICAL FEATURES

- Non-Spillable Sealed Construction
- Seal Lead Acid Battery
- AGM, ABS, Gas Recombination
- Venting System for low internal pressure
- Low Self-Discharge & High Power Output
- Heavy-Duty, Highly Optimized Grids
- Maintenance-Free Operation



## CHARACTERISTICS

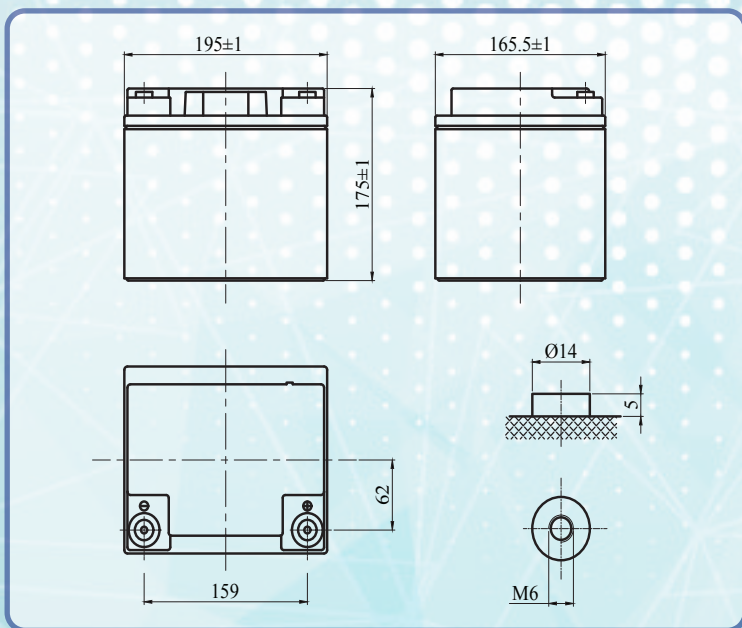
Nominal Voltage	12 V	
Capacity 25°C (77°F)	20 Hour rate	42Ah
	10 Hour rate	40Ah
	5 Hour rate	37.55Ah
Internal Resistance (25°C, 100% Charge)	≤ 12 m Ω	
Self Discharge (20°C)	1 Month	Remaining Capacity 97%
Operating Temperature	Discharge	-20°C - 60°C
	Charge	-10°C - 60°C
	Storage	-20°C - 60°C
Normal Operating Temperature	25°C ± 3°C	
Maximum Discharge current	400A (5sec)	
Maximum Charging current	16A	
Short Circuit Current	950A	
Charge Methods Constant Voltage Charge 77°F (25°C) - Cycle use	14.4 to 14.7V	
	Temp. Compensation -30mV/°C	
Charge methods Constant Voltage Charge 77°F (25°C) - Standby Use	13.4 to 13.8V	
	Temp. Compensation -20mV/°C	
Design Life	10 Years	

### CONSTANT CURRENT DISCHARGE (Rating Amperes) AT 25°C

End Cell Voltage (ECV)	DURATION										
	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.60	94.85	75.81	60.17	45.65	27.27	16.54	11.31	7.78	4.83	4.08	2.25
1.65	91.97	72.56	57.98	43.83	26.93	15.87	10.97	7.49	4.73	4.03	2.20
1.70	89.08	69.31	55.78	42.00	26.58	15.20	10.62	7.20	4.62	3.98	2.14
1.75	85.71	67.74	55.26	41.58	26.25	15.00	10.61	7.18	4.59	3.91	2.10
1.80	84.00	66.67	53.85	41.18	25.12	14.89	10.55	7.12	4.57	3.89	2.09

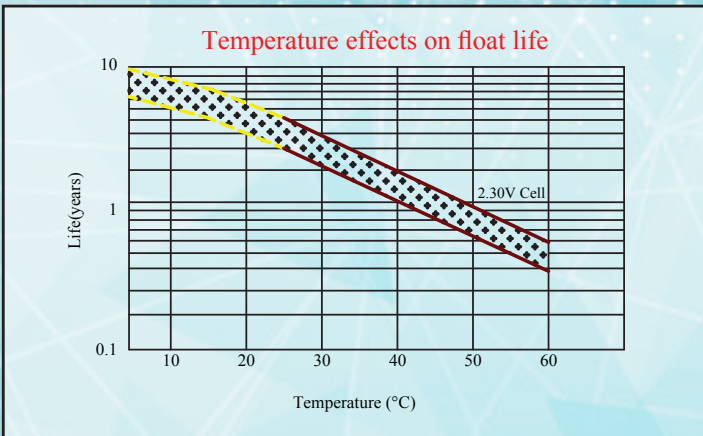
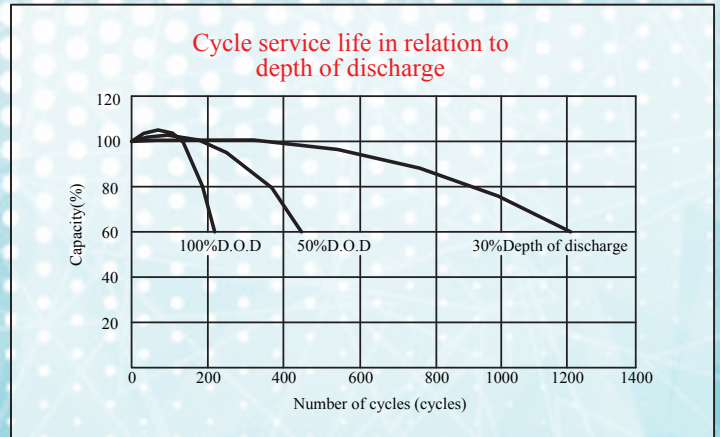
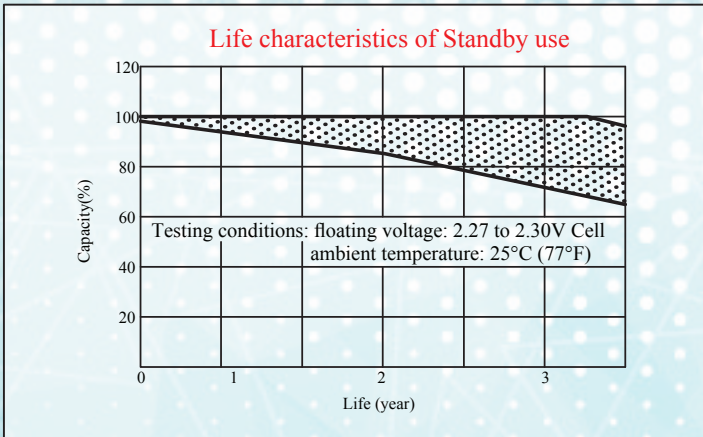
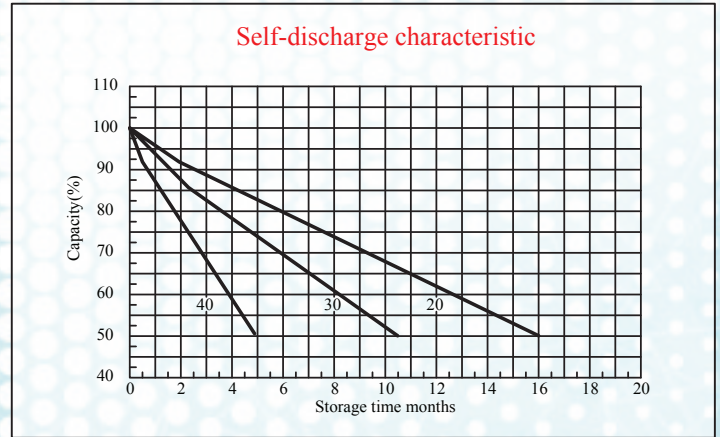
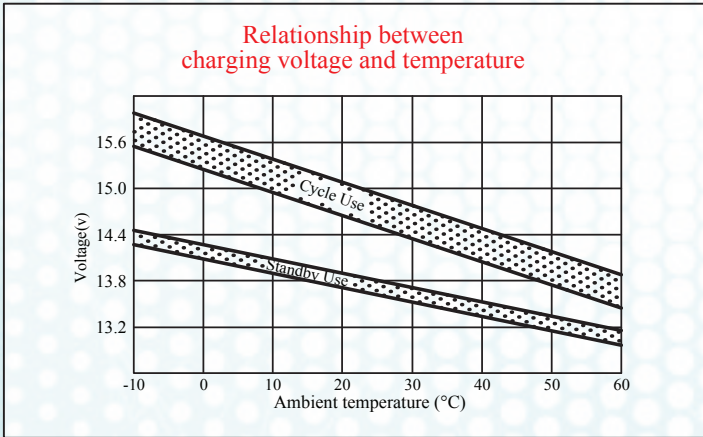
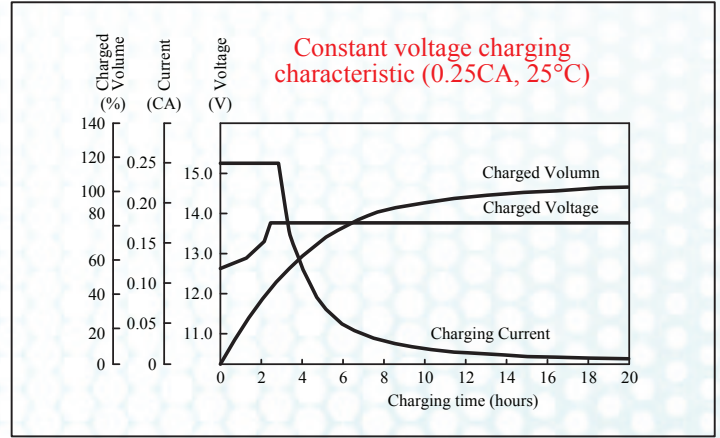
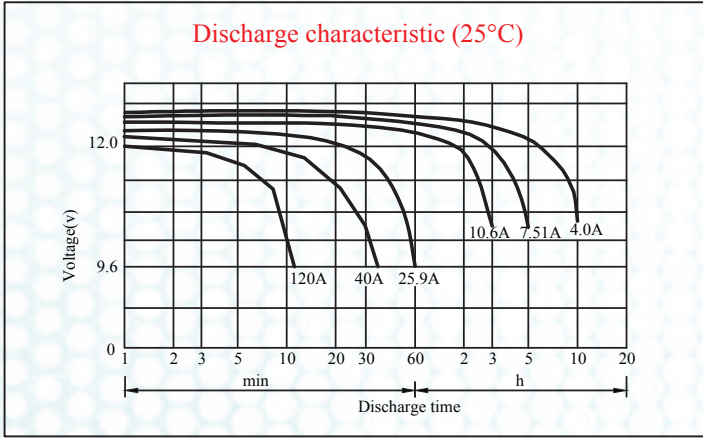
### CONSTANT POWER DISCHARGE (Watts per Battery) AT 25°C

End Cell Voltage (ECV)	DURATION										
	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.60	1136	882	715	565	330	192	134.0	91.0	60.0	52.0	25.0
1.65	1114	862	704	543	325	189	133.0	90.5	59.5	51.5	24.5
1.70	1092	842	693	520	320	185	132.0	90.0	59.0	51.0	24.0
1.75	1051	821	683	513	313	183	131.0	89.5	58.5	50.5	23.5
1.80	1010	800	672	505	305	180	130.0	89.0	58.0	50.0	23.0



## DIMENSION

Length	Width	Height	Total Height	Weight (kg)
195 mm	165 mm	175mm	175 mm	13.3 ± 5%



**Authorized Distributor**