

GENERAL PURPOSE LEAD-ACID BATTERY

RT 2.3-12

APPLICATIONS

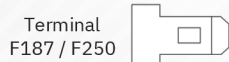
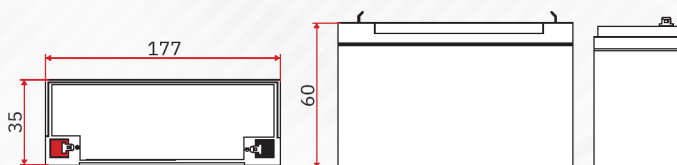
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

GENERAL FEATURES

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology

DIMENSION AND WEIGHT

	RT 2.3-12
Length	177mm
Width	35mm
Height	60mm
Total Height	60mm
Weight	Approx. 0.95kg



PRODUCT SPECIFICATIONS

ITEM	RT 2.3-12
Nominal voltage	12V
Nominal capacity	2.3Ah
Design life	5 years
Terminal	F187 / F250
Approx. weight	Approx. 0.95kg (2.09lbs)
Container material	ABS
Rated capacity	2.300Ah 20 Hour rate (0.115A to 10.5V) 1.788Ah 3 Hour rate (0.596A to 10.5V) 1.52Ah 1 Hour rate (1.52A to 9.60V)
Internal resistance	Full charged at 25°C: 90.0 mΩ
Max discharge current	34.5A (5s)
Operating temperature	Discharge: -20 ~ 50°C (-4 ~ 122°F) Charge: -20 ~ 50°C (-4 ~ 122°F) Storage: -20 ~ 50°C (-4 ~ 122°F)
Charge method (25°C)	Charge current: Max. 0.58A; recom. 0.23A Float charge: 13.5 - 13.8V, recom. 13.5V (-18mV/°C) Equalize charge: 13.8 - 14.1V, recom. 14.1V (-24mV/°C) Cycle charge: 14.4 - 15.0V, recom. 14.4V (-30mV/°C)
Self discharge	3% of capacity declined per month at 25°C

Constant current discharge characteristics unit: A (25°C, 77°F)

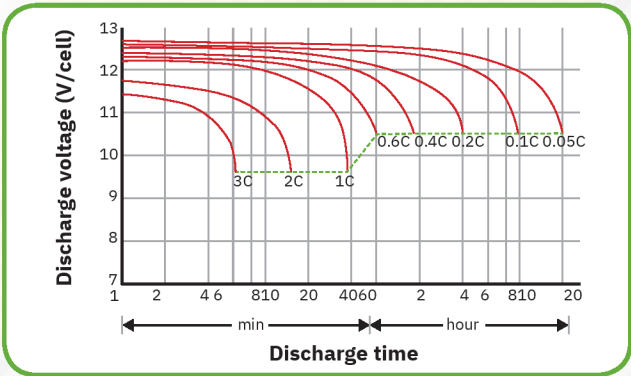
VOLTAGE	RT 2.3-12											
F.V TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	9.11	5.96	4.44	2.91	1.52	0.869	0.635	0.508	0.432	0.285	0.228	0.122
1.65V	9.04	5.70	4.07	2.76	1.43	0.835	0.616	0.492	0.423	0.281	0.225	0.120
1.70V	7.41	5.36	3.80	2.68	1.38	0.819	0.605	0.467	0.419	0.276	0.221	0.117
1.75V	6.88	5.11	3.54	2.62	1.33	0.798	0.596	0.460	0.400	0.269	0.216	0.115
1.80V	6.33	4.81	3.29	2.53	1.29	0.777	0.564	0.451	0.384	0.262	0.212	0.110

Constant power discharge characteristics unit: W/cell (25°C, 77°F)

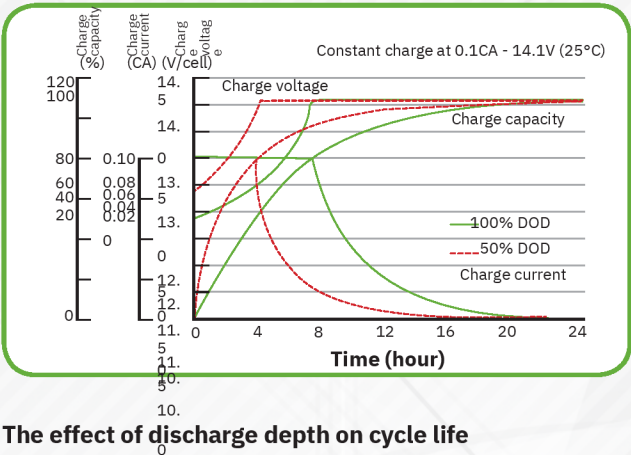
VOLTAGE	RT 2.3-12											
F.V TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	17.1	10.7	8.13	4.91	2.78	1.63	1.20	0.962	0.817	0.538	0.441	0.242
1.65V	15.8	10.2	7.63	4.88	2.62	1.57	1.17	0.932	0.801	0.530	0.433	0.235
1.70V	14.4	9.85	7.28	4.86	2.54	1.54	1.15	0.886	0.778	0.525	0.429	0.233
1.75V	13.1	9.55	7.02	4.81	2.46	1.50	1.13	0.874	0.763	0.503	0.419	0.228
1.80V	11.7	9.24	6.71	4.78	2.43	1.49	1.10	0.866	0.744	0.486	0.411	0.227

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information

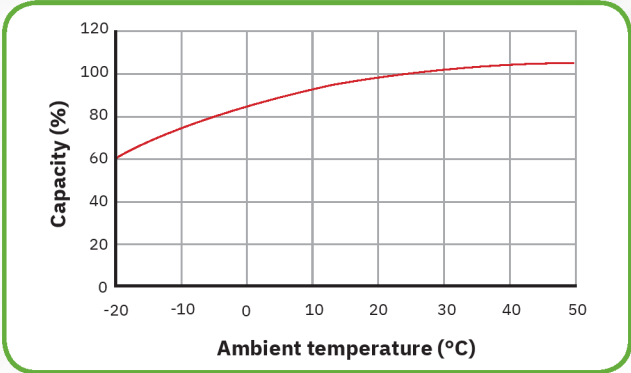
Discharge characteristics



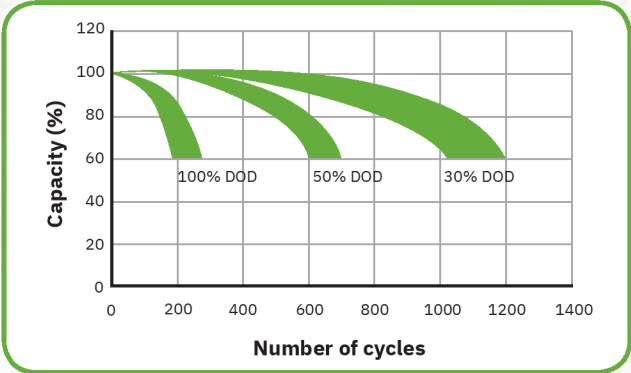
Charging characteristics



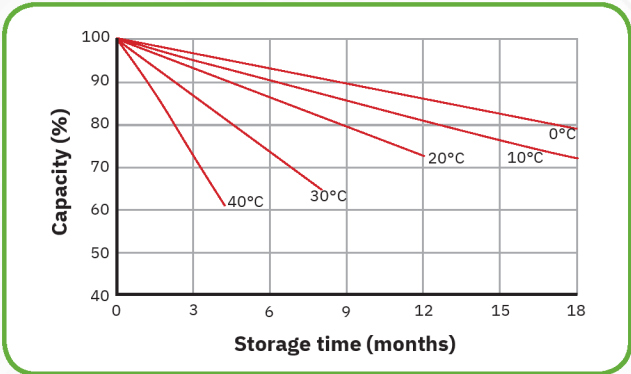
The effect of temperature on capacity



The effect of discharge depth on cycle life



The effect of temperature on capacity



The effect of temperature on float life

