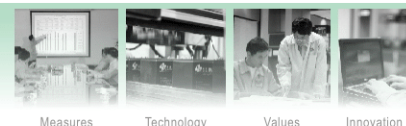




VRLA Rechargeable Battery

BPS28-12D



Measures

Technology

Values

Innovation

FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- Absorbent Glass Mat technology for efficient gas recombination
- Long life expectancy 10 years in float application

APPLICATIONS

- UPS
- Electronic Medical Equipment
- Utility Switching
- Emergency power
- Security System

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (1400mA, 10.5V)	28.0 Ah
	10 Hour Rate (2660mA, 10.5V)	26.6 Ah
	5 Hour Rate (4760mA, 10.5V)	23.8 Ah
	1 Hour Rate (16800mA, 9.3V)	16.8 Ah
	15 Min Rate (666W, 10.02V)	13.88 Ah
Approx. Weight	9120g(20.11lbs.)	
Terminals	TP (Fitting M5 post), I1(Fitting M5 bolt) is optional	
Max. Discharge Current	420 A (5 sec.)	
Max. Charge Current	8.4 A	
Operating Temperature Range	Charge	0°C~40°C(32°F~104°F)
	Discharge	-20°C~50°C(-4°F~122°F)
	Storage	-20°C~40°C(-4°F~104°F)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	$\leq 11m\Omega$ (Fully Charged)	



Terminal TP



Terminal I1

CONTAINER MATERIAL

- Standard: ABS(UL94 HB)
Model Name: BPS28-12D
- Optional: Flame Retardant ABS (UL94 V-0)
Model Name: BPS28-12DFR

Certificate as below:

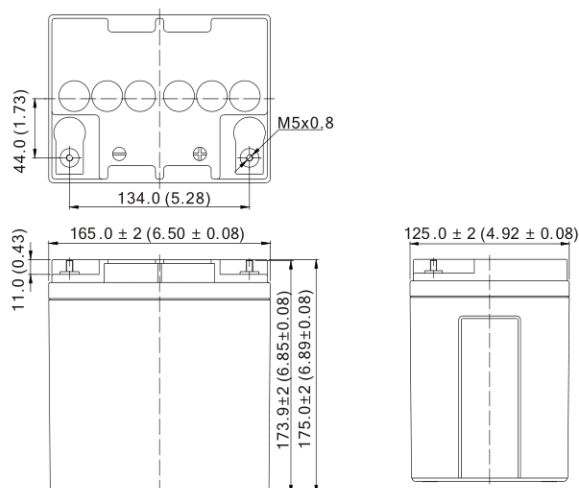


Compliance of the standards as below:

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

OUTER DIMENSIONS mm(inch)

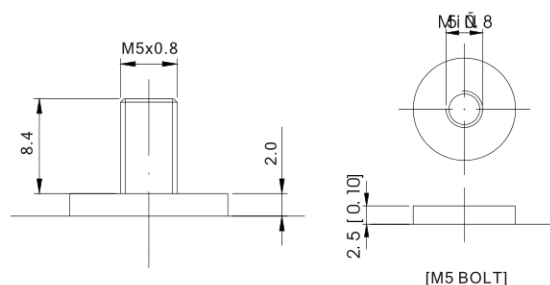
Length (L)	Width (W)	Container Height (H)	Total Height (TH)
165±2(6.50±0.08)	125±2(4.92±0.08)	175±2(6.89±0.08)	175±2(6.89±0.08)



TERMINAL TYPE

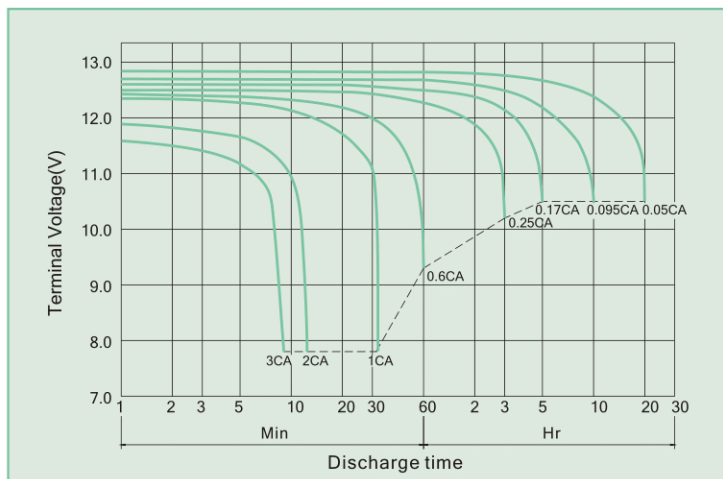
● Terminal TP

● Terminal I1

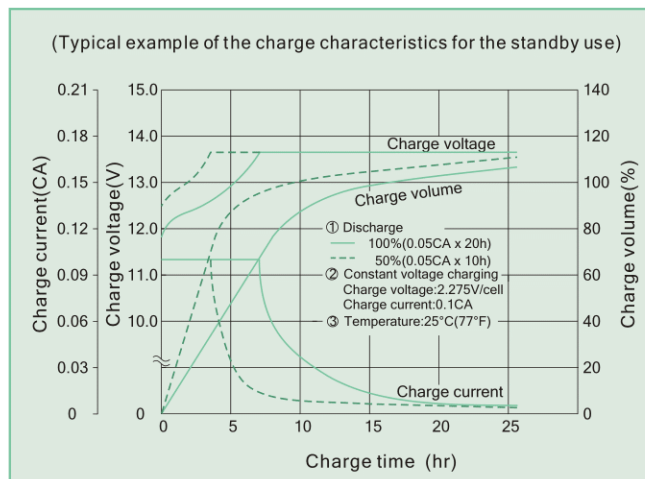


Terminal Hardware Initial Torque: 4.0Nm±5%

BPS28-12D (BPS28-12DFR) discharge characteristics (25°C/77°F)



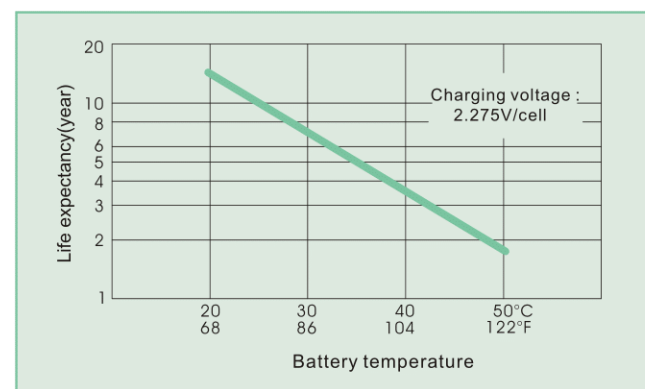
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

Effect Of Temperature On Long Term Float Life



Constant power (W) @ 25 °

Discharge Time (V/cell)	2 Min	4 Min	6 Min	8 Min	10 Min	15 Min	20 Min	30 Min	60 Min	90 Min
1.60	1836	1590	1326	1063	893	687	555	391	248.6	181.4
1.67	1651	1430	1196	984	866	666	541	385	244.1	178.9
1.70	1547	1357	1165	972	855	658	535	382	242.2	177.5
1.75	1396	1224	1097	921	826	638	520	373	237.9	174.4
1.80	1206	1058	948	857	768	610	499	360	231.0	172.0
1.85	1036	930	868	798	735	590	480	339	221.2	168.3

Constant current (A) performance data @ 25 °

Discharge Time (V/cell)	2 Min	4 Min	6 Min	8 Min	10 Min	15 Min	20 Min	30 Min	60 Min	90 Min
1.60	172	146	122	98	82	61.5	48.3	33.6	21.5	15.2
1.67	155	131	110	92	80	59.7	47.1	33.1	20.8	15.0
1.70	145	125	107	90	79	58.9	46.6	32.9	20.6	14.9
1.75	131	112	101	85	76	57.2	45.3	32.4	20.3	14.7
1.80	111	95	85	78	70	54.7	43.5	31.9	19.8	14.5
1.85	92	81	75	72	65	51.5	41.0	29.8	18.6	14.0

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.

For operation, please refer to the instruction from technical manual.

A/5 REV. Apr. 2021

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