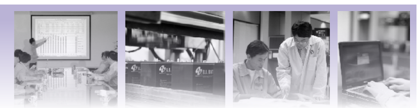


Measures Technology Values Innovation

VRLA Rechargeable Battery

UPS12650W

FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed with very lower resistance and exceeding high power performance
- Long life expectancy 10 years in float application
- Flame-arrestor is installed to ensure safety
- Carry handles for easy installation
- Absorbent Glass Mat technology for efficient gas recombination

APPLICATIONS

- UPS
- Cable TV
- Golf-Carts
- Telecom
- Power station
- Marine

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	10 Hour Rate (15.8A, 10.5V)	158.0 Ah
	5 Hour Rate (27.6A, 10.5V)	138.0 Ah
	1 Hour Rate (112A, 9.6V)	112.0 Ah
	15 Min Rate (650W, 9.6V)	81.25 Ah
Approx. Weight	46.8kg(103.1lbs.)	
Terminals	I3	
Max. Charge Current	47A	
Short Circuit Current	4000 A	
Operating Temperature Range	Charge	0℃~50℃(32℉~122℉)
	Discharge	-20℃~60℃(-4℉~140℉)
	Storage	-20℃~50℃(-4℉~122℉)
Self Discharge	< 3% per month (25℃)	
Internal Resistance	≦2.6mΩ (Fully Charged)	

CONTAINER MATERIAL

- Standard: PP(UL94 HB)

  Model Name: UPS12650W
- Optional: Flame Retardant PP (UL94 V-0)

  Model Name: UPS12650WFR

Certificate as below:

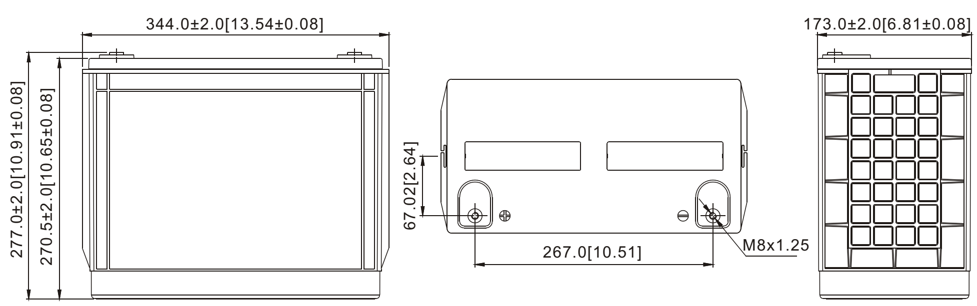
CE

Compliance of the standards as below:

- IEC60896-21/22
- JIS C 8704-2
- GB/T 19638.2

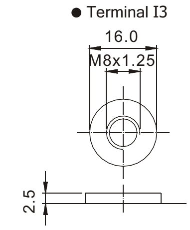
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
344±2.0(13.54±0.08)	173±2.0(6.81±0.08)	270.5±2.0(10.65±0.08)	277±2.0(10.91±0.08)



TERMINAL TYPE

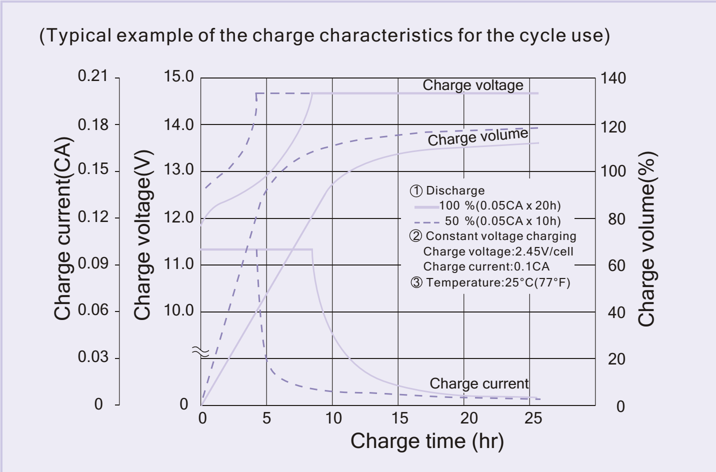
- Terminal I3



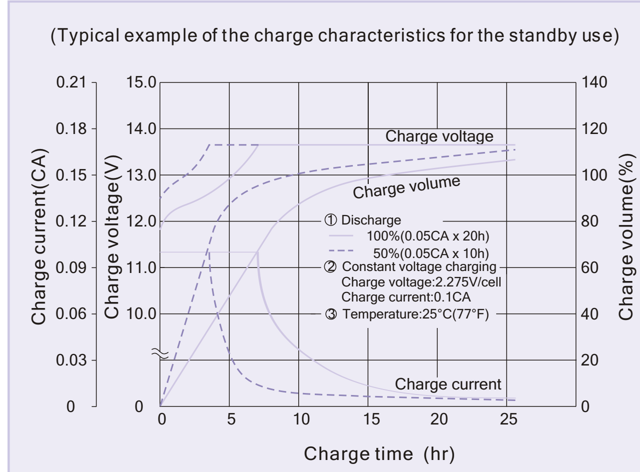
Terminal Hardware Initial Torque:

I3(10.0N.m±5%)

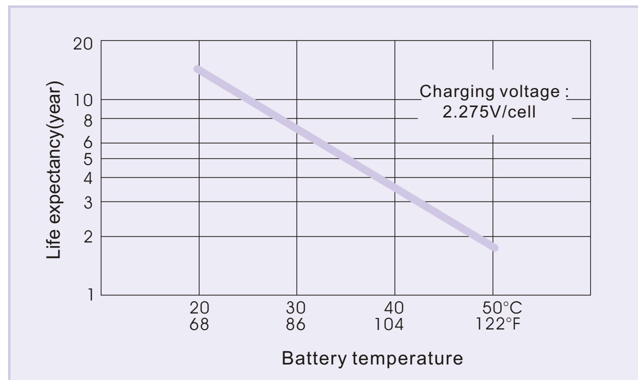
UPS12650W (UPS12650WFR)Charging Characteristics



Battery Charging Characteristics



Effect Of Temperature On Long Term Float Life



Charging Procedure

Application	Charging method	Charging Voltage at 25℃ (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	0~50 (32~122°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

Constant power discharge characteristics at 25°C/77°F Unit: W

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	40 Min	50 Min	60 Min	90 Min
1.80V	5171	4336	3436	2873	2494	2242	1760	1477	1280	910
1.75V	5660	4604	3635	2985	2568	2299	1797	1508	1300	924
1.70V	6114	4793	3759	3062	2619	2336	1822	1526	1314	935
1.65V	6529	4941	3844	3120	2660	2362	1843	1542	1327	943
1.60V	6700	5037	3900	3162	2692	2385	1862	1555	1338	948

Constant current discharge characteristics at 25°C/77°F Unit: A

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	40 Min	50 Min	60 Min	90 Min
1.80V	466	374	307	246	210	187	146	123	107.6	76.4
1.75V	513	401	324	256	218	194	150	126	109.2	77.6
1.70V	559	428	335	264	225	198	153	128	110.5	78.5
1.65V	613	453	344	269	228	202	155	130	111.6	79.3
1.60V	648	476	350	273	231	204	157	132	112.3	79.8

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

A/0 REV. Jul. 2021

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