

## JH12-530W



### Applications

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

### Specification

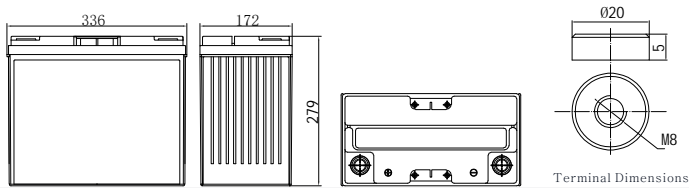
Nominal Voltage	12V		
Nominal Capacity	145Ah(530W@15min-rate to 1.67V per cell @25°C)		
Design life	10 years		
Terminal	M8		
Approx. Weight	Approx44.0kg (97.0lbs)		
Container Material	ABS(UL94-HB, UL94-V0 Optional)		
Rated Capacity	145.0Ah	10Hour Rate (14.5A to 10.8V)	
	110.7Ah	3Hour Rate (36.9A to 10.2V)	
	104.0Ah	1Hour Rate (104A to 9.6V)	
Internal resistance	Full charged at 25°C:	3.80 mΩ	
Max. Discharge Current	1450A(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. 36.25A ;Recom.14.5A	
	Float Charge:	13.7-13.9V,recom.13.8V(-18mV/°C)	
	Equalize charge:	13.8-14.1V,recom.14.1V(-24mV/°C)	
	Cycle charge:	14.4-15.0V,recom.14.7V(-30mV/°C)	
Self discharge	3% of capacity declined per month at 25°C		

### 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
- > Long life



Dimension:336(L)×172(W)×279(H)×279(TH) Unit: mm



### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

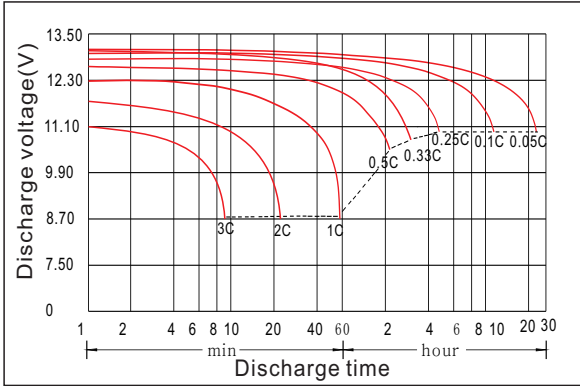
FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	304	170	116	104	75.1	49.6	37.6	29.3	25.5	22.0	16.9	15.0	7.89
1.67V	294	167	115	100	72.2	49.2	37.2	29.0	25.3	21.8	16.8	14.9	7.82
1.70V	288	164	114	98.0	70.8	48.7	36.9	28.8	25.1	21.7	16.6	14.8	7.75
1.75V	279	162	113	97.0	69.3	48.3	36.6	28.5	24.9	21.5	16.5	14.6	7.68
1.80V	260	155	112	92.0	65.9	47.8	36.2	28.3	24.6	21.3	16.3	14.5	7.61
1.85V	229	142	109	84.0	60.6	46.5	35.3	27.5	24.0	20.7	15.9	14.1	7.40

### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

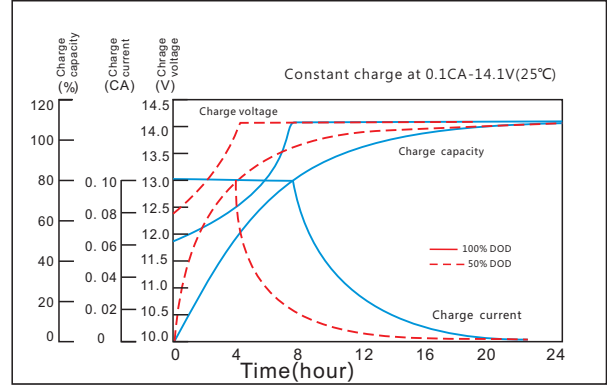
FV/Time	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	540	308	228	196	142	97.3	74.0	57.6	50.3	43.3	34.2	29.5	15.7
1.67V	530	305	226	189	138	96.7	73.4	57.1	50.0	42.9	33.9	29.3	15.6
1.70V	525	304	224	188	136	96.0	73.3	56.5	49.7	42.5	33.7	29.0	15.5
1.75V	519	303	221	187	135	95.7	72.9	55.8	49.5	42.0	33.3	28.6	15.3
1.80V	492	296	219	185	134	95.6	72.2	55.3	49.2	41.6	33.0	28.3	15.2
1.85V	435	275	216	172	124	94.4	71.3	54.5	48.7	41.0	32.2	27.9	14.9

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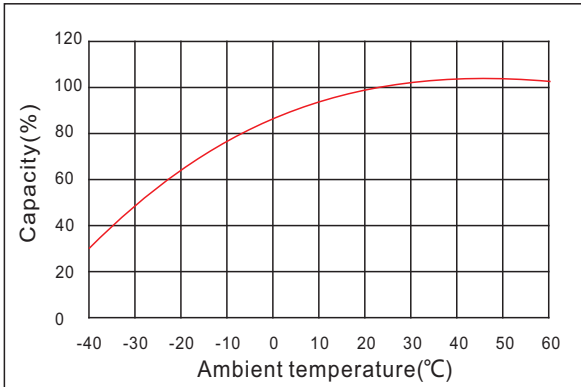
Discharge characteristic



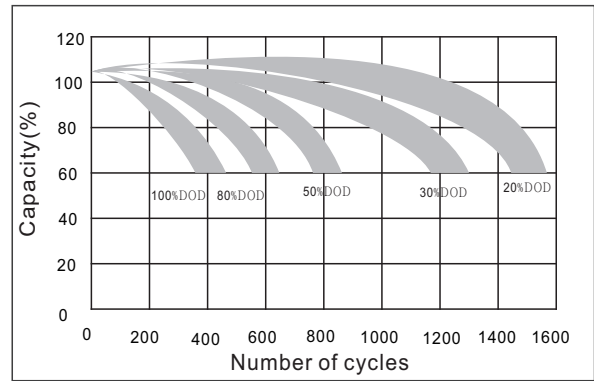
Charging characteristic



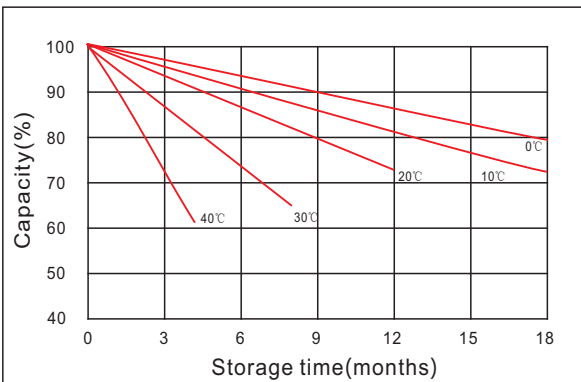
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

