

#### FEATURES

- High capacity ,Long life
- Sealing structure of PP materials
- High CCA and good starting performance
- Maintenance-free design
- Low self-discharge
- C.O.S Application

#### PS12-7 SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.0Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 2.0 kg(4.4 lbs)
Maximum Discharge Current	105A(5sec)
Internal Resistance	Approx. 29 mΩ
Operating Temperature Range	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15°C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	2.1A
Equalization and Cycle Service	14.4 to 14.8 VDC/unit Average at 25°C (77°F)
Self Discharge	HENGLI Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	F2-Faston Tab250
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

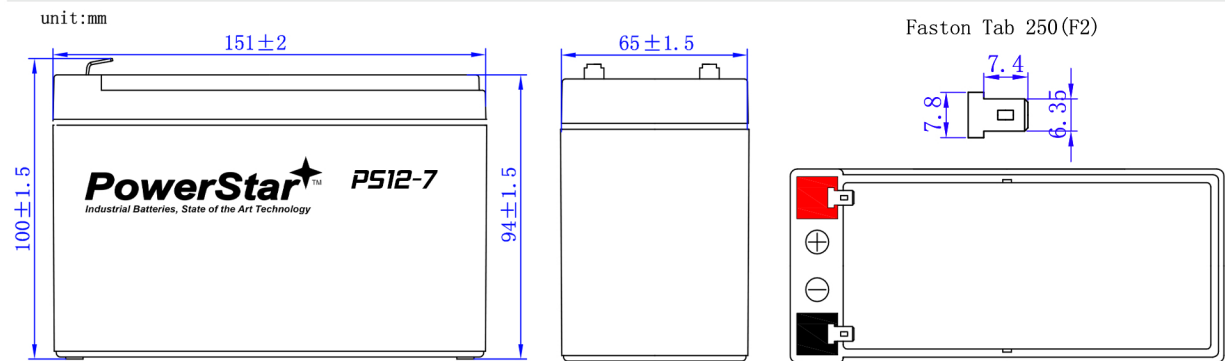


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ISO 9001 and ISO 14001.

#### DIMENSIONS

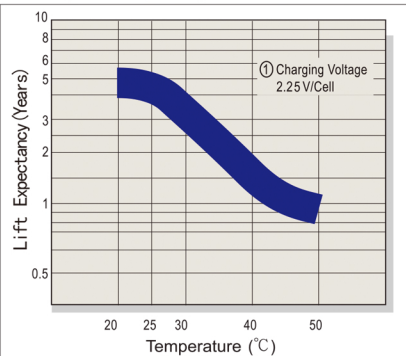
Overall Height (H)	Container height (h)	Length (L)	Width (W)
100±1.5	94±1.5	151±2	65±1.5



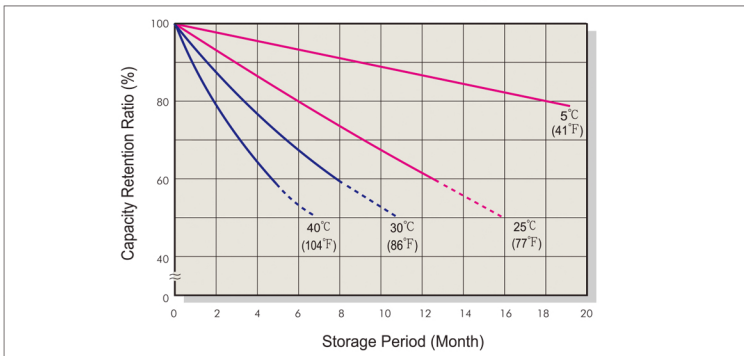
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)								
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	23.0	12.9	7.43	4.11	1.77	1.19	0.666	0.357
1.67V	22.6	12.7	7.39	4.07	1.77	1.18	0.664	0.356
1.7V	21.9	12.3	7.30	4.01	1.75	1.17	0.661	0.354
1.75V	20.8	11.8	7.12	3.91	1.73	1.15	0.655	0.350
1.8V	18.6	10.8	6.82	3.71	1.67	1.10	0.634	0.342
1.85V	14.5	9.2	6.32	3.41	1.55	1.03	0.602	0.329

Constant Power Discharge Characteristics Unit:W (25°C, 77°F)								
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	39.1	24.9	14.35	7.80	3.48	2.32	1.31	0.708
1.67V	37.3	23.6	14.29	7.75	3.48	2.32	1.31	0.708
1.7V	34.8	22.0	14.16	7.66	3.45	2.30	1.30	0.704
1.75V	31.5	20.2	13.86	7.51	3.40	2.25	1.28	0.695
1.8V	26.9	17.8	13.29	7.26	3.29	2.17	1.24	0.680
1.85V	21.0	15.0	12.30	6.77	3.08	2.05	1.19	0.656

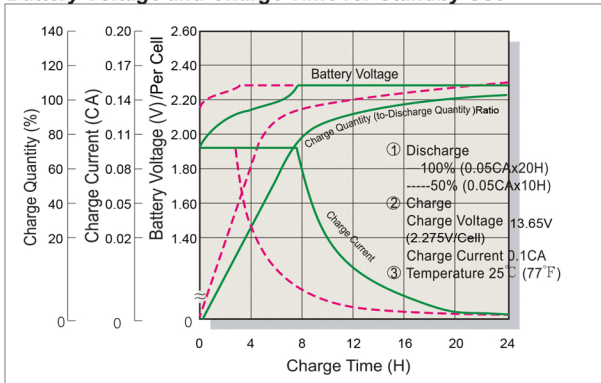
#### Trickle(or Float)Design Life



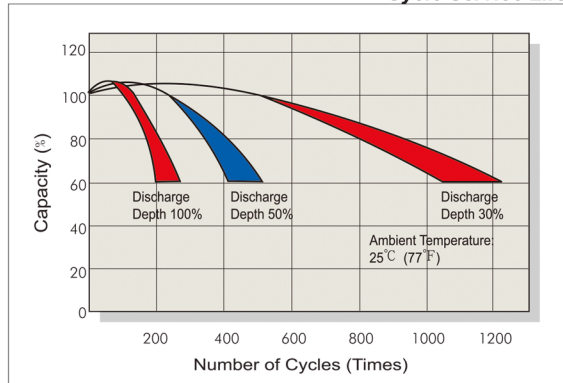
#### Capacity Retention Characteristic



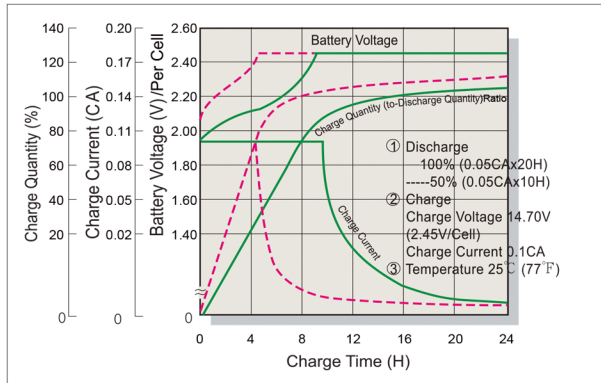
#### Battery Voltage and Charge Time for Standby Use



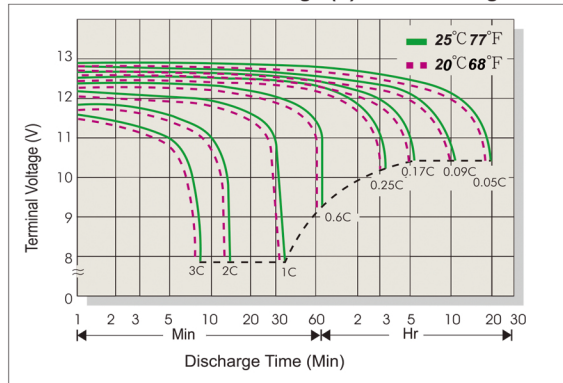
#### Cycle Service Life



#### Battery Voltage and Charge Time for Cycle Use



#### Terminal Voltage (V) and Discharge Time



#### Charging Procedures

Application	Charge Voltage(V/Cell)		Max.Charge Current
	Temperature	Set Point Allowable Range	
Cycle Use	25°C(77°F)	2.45 2.40~2.50	0.3C
Standby	25°C(77°F)	2.275 2.25~2.30	

#### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

#### Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

#### Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%