CSPower Battery: Constant, Safe Power for You



HTL Pro High Temperature Deep Cycle GEL Battery

HTL12-70

The HTL Pro solid state deep cycle gel battery updated from HTL series and adopts the advanced developed nano gel electrolyte with more super-C additive plus +2% thicker heavy duty plates design inside. It has a longer service life even deep cycle discharge use and provide optimum and reliable service under extreme condition such as high temperature and frequent power failure, thus it is highly suited for tropical area in outdoor applications such as Telecom BTS stations and Off-grid PV system.

12V Voltage







and Off-grid PV system. GENERAL FEATURES

- Able to operate at $-40 \sim 60^{\circ}$ C
- Integrated design to ensure the best uniformity and reliability
- Longer life and higher stability
 1750 cycles @ 50% DOD
- More Super-C additives: Deep discharge recovery capability.





- BTS Stations
- Solar & Wind energy system
- > UPS system
- Telecom systems
- Wheel chair, Golf cart

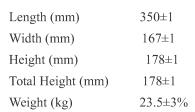
COMPLIED STANDARDS

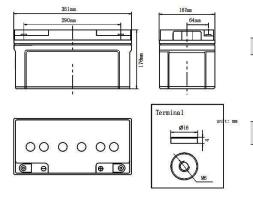
IEC 60896-21/22 JIS C8704

IEC61427 BS6290 part4

GB/T 19638 CE/ISO

DIMENSIONS & WEIGHT





TECHNICAL SPECIFICATIONS

Non	12V (6 cells per unit)					
Design Flo	15 Years					
Nominal Capacity @2:	70Ah					
	10hour rate (6.3A,10.8V)	63Ah				
Capacity @25℃	5 hour rate (11.1A,10.5V)	55.5Ah				
	1 hour rate (42.7A,9.6V)	42.7Ah				
Internal Resistance	Full Charged Battery@25°C	≤7.3 mΩ				
	Discharge	-25℃~60℃				
Ambient Temperature	Charge	-25℃~60℃				
	Storage	-25℃~60℃				
Max.Discha	Max.Discharge Current@25°C					
	40 ℃	108%				
Capacity affected by	25℃	100%				
Temperature	0℃	90%				
(10 hour rate)	-15℃	70%				
Self-Dischar	3%					

Charge (Constant	Standby Use	Voltage 13.6-13.8V
Voltage) @25℃	Cycle Use	Initial Charging Current Less than 16.0A Voltage 14.4-14.9V

BATTERY DISCHARGE TABEL

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Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	113.2	68.9	46.2	42.7	24.7	17.3	11.8	7.8	6.9	3.78	0.84
1.65V	111.1	67.7	45.4	42.0	24.2	17.0	11.6	7.6	6.8	3.71	0.82
1.70V	109.1	66.4	44.5	41.2	23.8	16.7	11.4	7.5	6.7	3.64	0.81
1.75V	107.0	65.2	43.7	40.4	23.3	16.4	11.1	7.4	6.6	3.57	0.79
1.80V	102.9	62.7	42.0	38.9	22.4	15.8	10.7	7.1	6.3	3.50	0.78

Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	217.9	132.7	88.9	82.3	47.5	33.4	22.7	15.0	13.3	7.3	1.62
1.65V	213.9	130.2	87.3	80.8	46.6	32.7	22.3	14.7	13.1	7.1	1.59
1.70V	210.0	127.8	85.7	79.3	45.8	32.1	21.9	14.4	12.9	7.0	1.56
1.75V	206.0	125.4	84.1	77.8	44.9	31.5	21.4	14.2	12.6	6.9	1.53
1.80V	198.1	120.6	80.9	74.8	43.2	30.3	20.6	13.6	12.1	6.7	1.50

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSPOWEr** for the latest information.

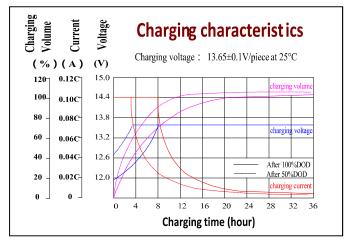


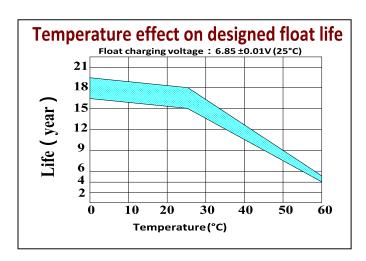
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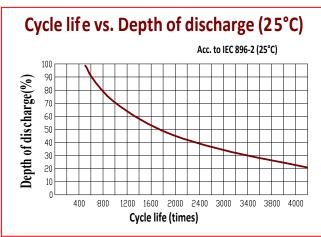
HTL12-70

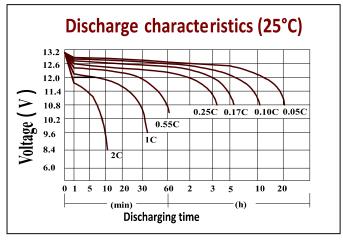
PERFORMANCE CHARACTERISTICS

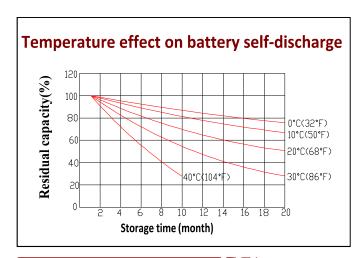


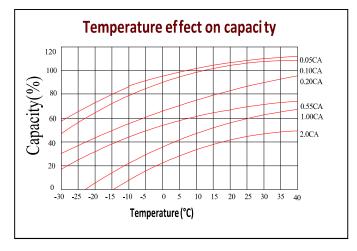












cell design

BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Containe r & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special	Balanced Pb-Ca grid for improved recombinati	Fire resistanc e ABS (UL94-V0	Flame Si-Rubber and aging	Female Copper Insert M6	Advanced PVC /AGM separator for high pressure	Silicon Gel	Two layers epoxy resin seal

resistance

optional)

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on efficiency



