## CSPower Battery: Constant, Safe Power for You



## **HTL Pro High Temperature Deep Cycle GEL Battery**

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.

## 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.

### APPLICATIONS



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











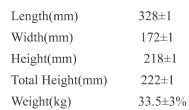
### COMPLIED STANDARDS

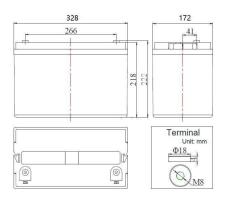
IEC 60896-21/22 JIS C8704

IEC61427 BS6290 part4

GB/T 19638 CE/ISO

### **DIMENSIONS & WEIGHT**





### TECHNICAL SPECIFICATIONS

Non	12V (6 cells per unit)						
Design Flo	20 Years						
Nominal Capacity @2:	110Ah						
	10hour rate (9.9A,10.8V)	99Ah					
Capacity @25℃	5 hour rate (17.5A,10.5V)	87.5Ah					
	1 hour rate (67.2A,9.6V)	67.2Ah					
Internal Resistance	Full Charged Battery@25°C	≤5.0mΩ					
	Discharge	-25℃~60℃					
Ambient Temperature	Charge	-25℃~60℃					
	Storage	-25℃~60℃					
Max.Discha	Max.Discharge Current@25°C						
G :	<b>40</b> ℃	108%					
Capacity affected by	25℃	100%					
Temperature	0℃	90%					
(10 hour)	-15℃	70%					
Self-Dischar	3%						

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

### BATTERY **DISCHARGE TABEL**



### 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	177.9	108.3	72.6	67.2	38.8	27.2	18.5	12.2	10.9	5.94	1.32
1.65V	174.6	106.3	71.3	65.9	38.1	26.7	18.2	12.0	10.7	5.83	1.29
1.70V	171.4	104.4	70.0	64.7	37.4	26.2	17.8	11.8	10.5	5.72	1.27
1.75V	168.2	102.4	68.6	63.5	36.7	25.7	17.5	11.6	10.3	5.61	1.25
1.80V	161.7	98.5	66.0	61.1	35.3	24.8	16.8	11.1	9.9	5.50	1.22

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

F.V/Time	15min	30min	45min	1 h	2h	3h	5h	8h	10h	20h	100h
1.60V	342.4	208.5	139.8	129.3	74.7	52.4	35.6	23.5	21.0	11.4	2.54
1.65V	336.2	204.7	137.2	126.9	73.3	51.5	35.0	23.1	20.6	11.2	2.49
1.70V	329.9	200.9	134.7	124.6	71.9	50.5	34.3	22.7	20.2	11.0	2.44
1.75V	323.7	197.1	132.1	122.2	70.6	49.5	33.7	22.2	19.8	10.8	2.40
1.80V	311.3	189.5	127.1	117.5	67.9	47.6	32.4	21.4	19.1	10.6	2.35

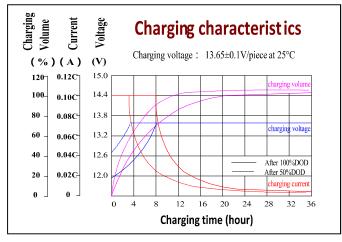
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **GSPOWEr** for the latest information.

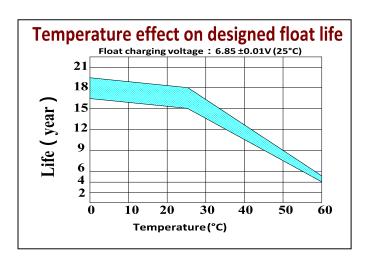


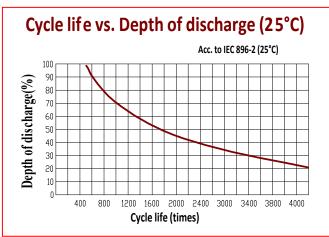
# HTL Pro High Temperature Deep Cycle GEL Battery HTL12-110

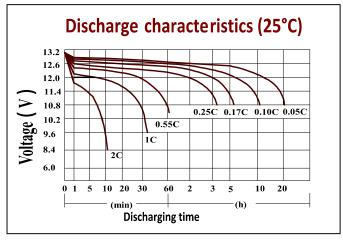
## PERFORMANCE CHARACTERISTICS

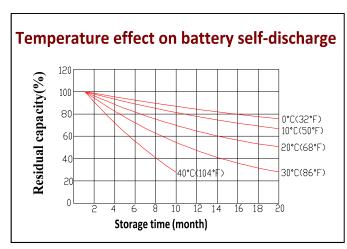


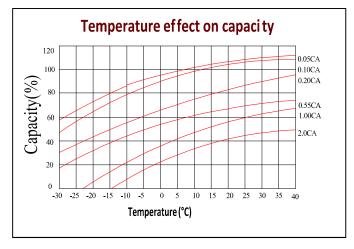












### **BATTERY CONSTRUCTION**



Component	Positive plate	Negative plate	Containe r &Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombinati on efficiency	Fire resistanc e ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Advanced PVC /AGM separator for high pressure cell design	Silicon Gel import from Germany	Two layers epoxy resin seal

### **CSPower Battery Tech Co., Ltd.**

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