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

DIMENSIONS & WEIGHT

- 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

FCHNICAL SPECIFICATIONS

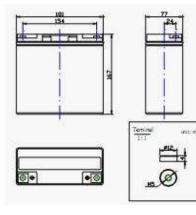
➢ Wheel chair, Golf cart



POWER

IEC 60896-21/22	JIS C8704
IEC61427	BS6290 part4
GB/T 19638	CE/ISO

Length(mm)	181 ± 1
Width(mm)	77 ± 1
Height(mm)	167 ± 1
Total Heigth(mm)	167 ± 1
Weight(kg)	6±3%



BATTERY DISCHARGE TABEL

TECHNICAL SPECIFICATIONS									
		12V(6 cells per unit)							
]	Design Flo	oating Life @	25℃	15 Years					
Nominal Cap	acity @25	5℃(20 hour r	ate@1.0A,10.8V)	20Ah					
		10hou	r rate (1.8A,10.8V)	18Ah					
Capacity @25	°C	5 hou	r rate (3.2A,10.5V)	16Ah					
		1 hou	r rate (11.1A,9.6V)	11.1Ah					
Internal Resista	ince	Full Charge	d Battery@25℃	≤12.0mΩ					
			Discharge	-15℃~45℃					
Ambient Temperature			Charge	-15℃~45℃					
			Storage	-15℃~45℃					
N	lax.Discha	arge Current@	025°C	120A(5s)					
Connaite affanta	d 1		40°C	105%					
Capacity affecte	-		25℃	100%					
Temperature (10 hour)	2		0°C	85%					
(10 11000)			-15℃	65%					
Sel	f-Discharg	ge@25℃ per	Month	3%					
	Stor	dhar Ugo	Initial Charging Cur	rent Less than 6.0A					
Charge (Constant	Stan	dby Use	Voltage 13	3.6-13.8V					
Voltage) @25℃	Cr.		Initial Charging Cur	rent Less than 6.0A					
	Cycle Use		Voltage 14.4-14.9V						

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

	-	-				1 V	•			-	
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	25.7	16.4	12.1	11.1	7.0	5.0	3.4	2.2	2.0	1.1	25.7
1.65V	25.3	16.1	11.9	10.9	6.9	4.9	3.3	2.2	1.9	1.08	25.3
1.70V	24.8	15.8	11.6	10.7	6.8	4.8	3.2	2.1	1.9	1.06	24.8
1.75V	24.3	15.5	11.4	10.5	6.7	4.7	3.2	2.1	1.9	1.04	24.3
1.80V	23.4	14.9	11.0	10.1	6.4	4.5	3.1	2.0	1.8	1.00	23.4

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

						•	<u> </u>	,			
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	74.7	45.5	30.5	28.2	16.3	11.4	7.8	5.1	4.6	2.5	0.55
1.65V	73.3	44.7	29.9	27.7	16.0	11.2	7.6	5.0	4.5	2.4	0.54
1.70V	72.0	43.8	29.4	27.2	15.7	11.0	7.5	4.9	4.4	2.4	0.53
1.75V	70.6	43.0	28.8	26.7	15.4	10.8	7.4	4.9	4.3	2.4	0.52
1.80V	67.9	41.3	27.7	25.6	14.8	10.4	7.1	4.7	4.2	2.3	0.51

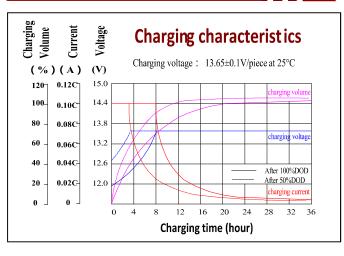
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSPower** for the latest information.

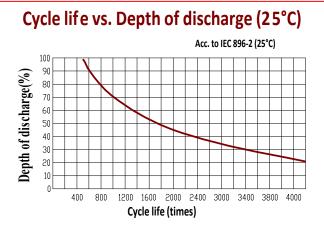
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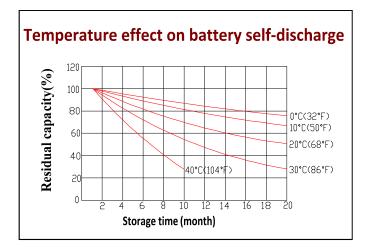
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PERFORMANCE CHARACTERISTICS





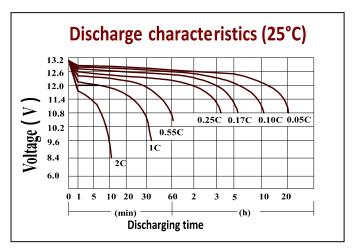


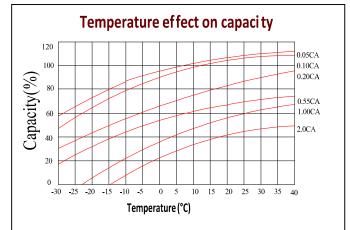
BATTERY CONSTRUCTION

Tem	perat		ffect (-		at life
	21						
	18						
r)	15						
Life (year	12						
<u> </u>	9						
Jife	6						
	4						
		10	20	30	40	50	60
		Те	mperat	ure(°C))		

Power

HTL12-20





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	F2/F1	Advanced PVC /AGM separator for high pressure cell design	Silicon Gel	Two layers epoxy resin seal

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