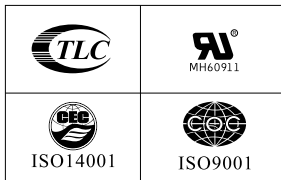


# Castle Battery C12-150AH



## Application

For UPS, EPS, Telecom, IDC, banking, transportation and other back-up power.



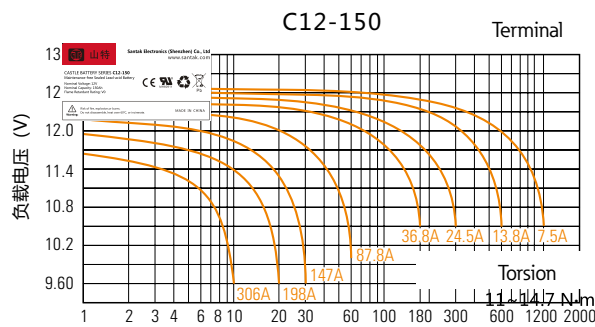
## Product Features

STK CASTLE series battery uses high magnification lead paste formulations and high corrosion resistant alloy multi-grid, and special exhaust structure and sealing technology. It has many excellent features like high discharge capacity, long life, safe and reliable, very low self-discharge rate, flexible installation, convenient maintenance etc.

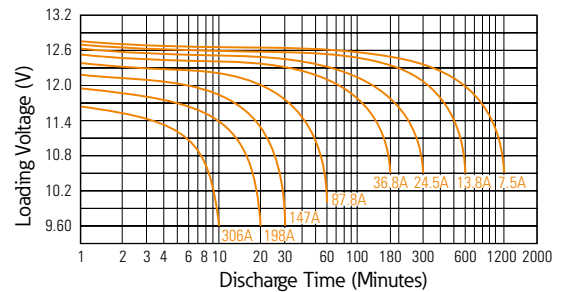
## Specifications

Nominal Voltage	12V
Design Life	10 years
Nominal Capacity	150Ah(20hr)
Dimension (L*W*H)	483*170*238mm
Approx Weight	41.8Kg
Internal Resistance	4mΩ
Operating Temperature Range	Charging: 0 to 40°C Discharging: -20 to 55°C Storage: -15 to 50°C
Capacity Affected by Temperature	103% $C_{20}$ @40°C 100% $C_{20}$ @25°C 86% $C_{20}$ @0°C
Float Charging Voltage	13.5 to 13.8V; Recom.13.7V
Cycle Use Charging Voltage	14.1 to 14.4V; Recom.14.1V
Float Charging Temp. Coefficient	-20mV/°C
Cycle Use Charging Temp. Coefficient	-30mV/°C
Max. Charging Current	37.5A
Max. Continuous Discharge Current	429A
Month Self Discharge	< 2% (20°C)
Terminal	T11 (Female M8)
Container Material	ABS (UL94-V0)
Design Life	10 years

## Dimensions



## Discharge Characteristics



## Constant Power Discharge (Watts/Cell@25°C)

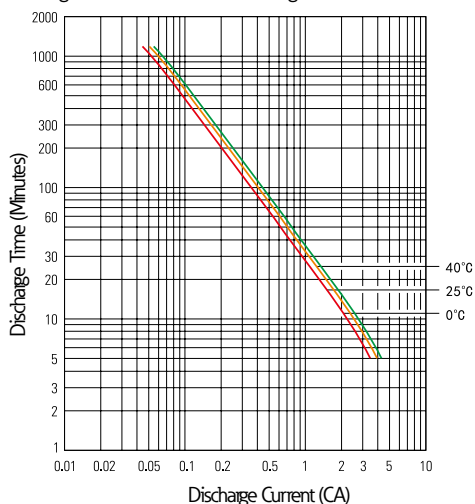
F.V.	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.80	590	451	371	312	238	180	154	116	93.0	699	55.9	46.9	40.7	32.2	26.9	14.7
1.75	634	478	389	325	247	186	159	119	95.3	71.5	57.1	47.8	41.5	32.8	27.2	14.9
1.70	676	503	406	338	256	192	164	122	97.8	73.2	58.3	48.8	42.3	33.3	27.6	15.1
1.67	699	517	420	346	261	195	166	124	99.1	74.1	59.0	49.3	42.7	33.6	27.8	15.2
1.60	751	548	438	362	272	203	173	129	102	76.4	60.6	50.6	43.7	34.3	28.3	15.4

## Constant Current Discharge (Ampere@25°C)

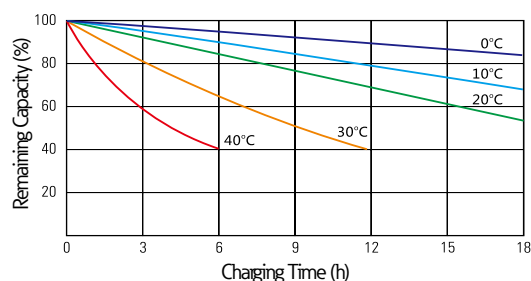
F.V.	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.80	315	239	195	164	124	94	80	60	48	35.8	28.5	23.9	20.7	16.4	13.6	7.4
1.75	344	256	207	172	130	97	83	62	49	36.8	29.3	24.5	21.2	16.7	13.8	7.5
1.70	373	273	218	181	136	101	86	64	51	37.8	30.0	25.0	21.6	17.0	14.0	7.6
1.67	389	283	225	186	139	103	88	65	52	38.4	30.4	25.3	21.9	17.1	14.1	7.7
1.60	429	306	242	198	147	109	92	68	54	40	31.4	26.1	22.5	17.5	14.4	7.8

# Castle Battery C12-150AH Typical Curves

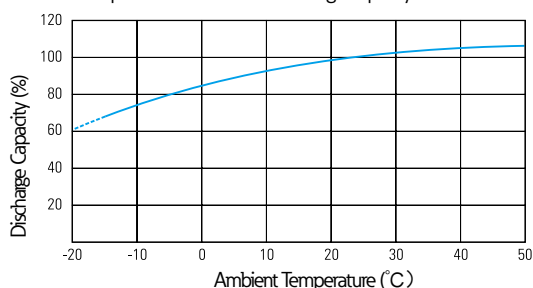
## Discharge Current in Relation to Discharge Time



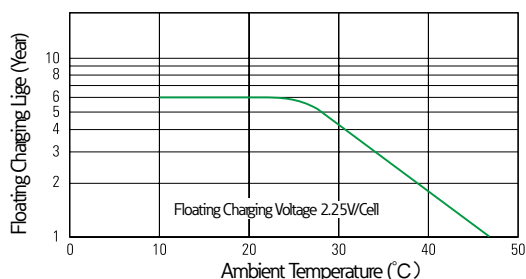
## Self-discharge Characteristics



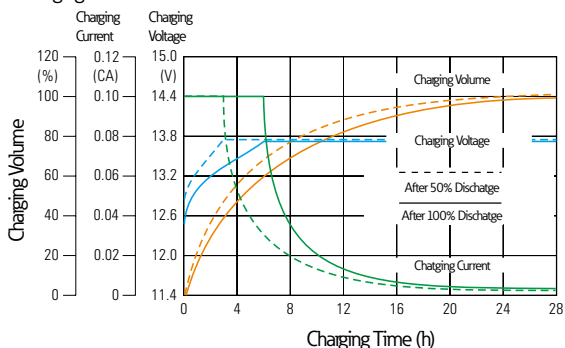
## Ambient Temperature in Relation to Discharge Capacity



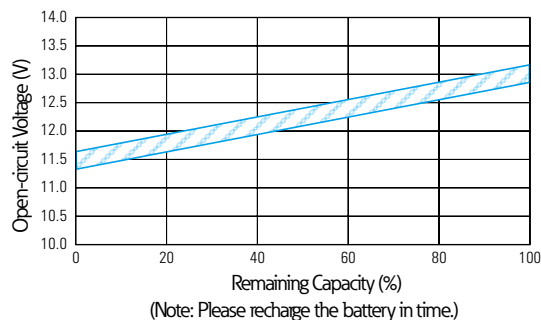
## Float Charging Life Characteristics



## Charging Characteristics



## Open-circuit Voltage in Relation to Remaining Capacity



\* Specifications are subject to change without prior notice.

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