



# STBLD SERIE BATTERIE – GEL

## STBLD – 12 – 150– GEL (12V – 150 A)



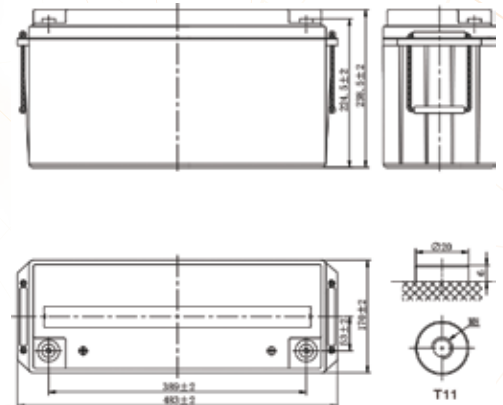
**SENLECH**  
Solar Energy and Technologies

### Specifications

Rated Voltage	12V	
Nominal Capacity	154Ah (C <sub>20</sub> , 1.75V/cell)	
Dimension	Length	483±2mm (19.0 inches)
	Width	170±2mm (6.69 inches)
	Container Height	238.5±2mm (9.39 inches)
	Total Height	238.5±2mm (9.39 inches)
Approx Weight	44.9 Kg (99.0 lbs)	
Terminal	T11(M8)	
Container Material	ABS	
Rated Capacity (25°C)	166.0Ah	(100hr, 1.66A, 1.80V/cell)
	163.4Ah	(72hr, 2.27A, 1.80V/cell)
	154.0Ah	(20hr, 7.70A, 1.75V/cell)
	140.0Ah	(10hr, 14.0A, 1.80V/cell)
	92.6Ah	(1hr, 92.6A, 1.75V/cell)
Max. Discharge Current	1400A (5s)	
Internal Resistance (25°C)	Approx 3.5mΩ	
Operating Temp. Range	Discharge : -20 – 55°C (-4 – 131°F)	
	Charge : 0 – 40°C (32 – 104°F)	
	Storage : -20 – 50°C (-4 – 122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 35.0A. Voltage 14.1V–14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	STBLD series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



### Layout



### Constant current Discharge (Amperes) at 25°C (77°)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	68.1	43.0	32.8	26.9	22.6	19.5	15.2	12.5	6.68	2.98	2.03	1.46
1.85V/cell	81.5	48.1	36.0	29.3	24.6	21.3	16.6	13.6	7.33	3.22	2.19	1.60
1.80V/cell	88.1	50.7	37.7	30.3	25.5	21.9	17.1	14.0	7.52	3.32	2.27	1.66
1.75V/cell	92.6	53.0	39.0	31.3	26.0	22.3	17.4	14.3	7.70	3.37	2.30	1.69

### Constant current Discharge (Amperes) at 25°C (77°)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	133.4	84.7	65.2	53.5	45.4	39.1	30.4	24.9	13.3	5.96	4.04	2.93
1.85V/cell	157.9	94.0	70.9	57.8	49.0	42.2	33.0	27.2	14.6	6.44	4.40	3.22
1.80V/cell	169.1	98.3	73.9	58.1	50.4	43.4	34.0	27.9	15.0	6.62	4.54	3.31
1.75V/cell	177.1	102.3	76.1	61.2	51.3	44.1	34.4	28.3	15.3	6.75	4.60	3.37



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### Applications

- Solar energy (wind energy) household system /communication / communication base station;
- Movable energy storage system;
- Solar traffic lights;
- Solar, wind and solar power generation;
- Emergency lighting system.

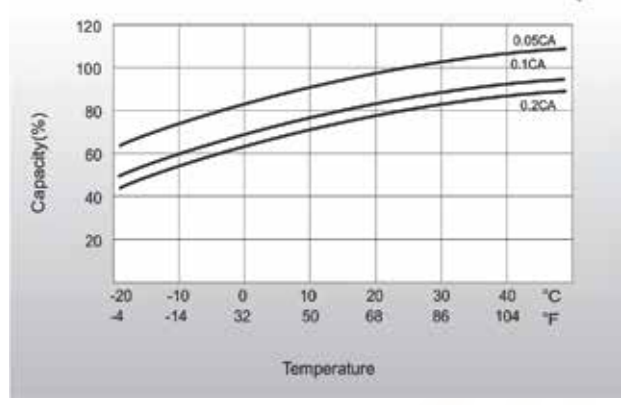
### General features

- Adopted advantage AGM-GEL technology
- Operation temperature -20~55°C
- ≤3% Self discharge per month
- Fast recharge

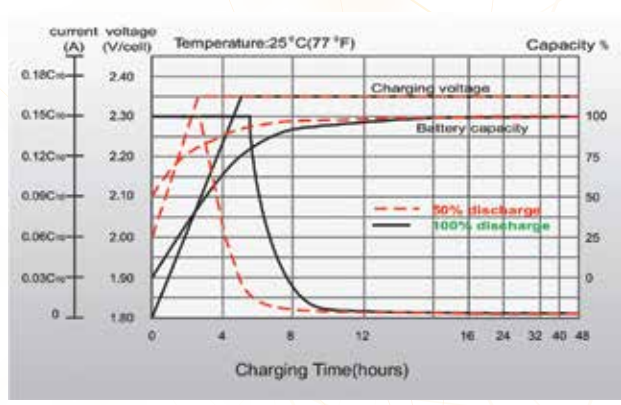
### Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- IATF16949, ISO 9001, 14001 and ISO 45001 certified production facilities

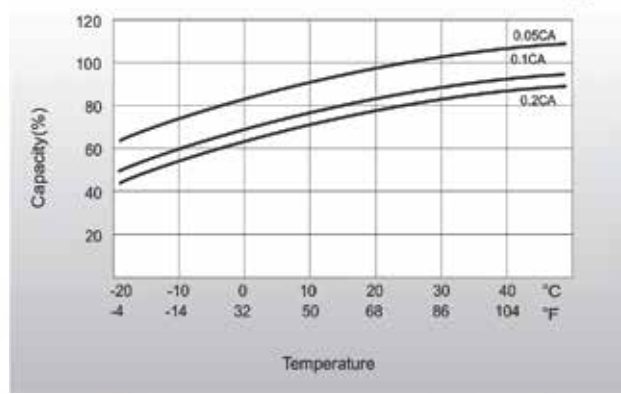
### Temperature Effects in Rzlation to Battery capacity



### Charging Charateristics



### Cycle life in Relation to Depth of Discharge



### Self Discharge Characteristics

