



## SOLAR TUBULAR BATTERIES

50Ah to 200Ah



MEETS IEC 61427-1 SPECIFICATIONS

**CHARGE  
YOUR  
TOMORROW**



**NO  
INTERNAL PACKING**



**LOW  
MAINTENANCE**



**FASTER  
RECHARGE**



**SUPERIOR  
VOLTAGE**



**PATENTED CONTAINER  
287292, 287295**



**PARTIAL STATE OF  
CHARGE CONDITION**



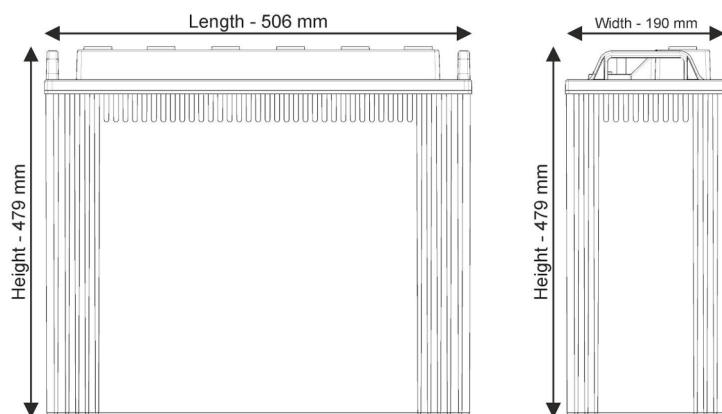
**LONGER  
LIFE**



**INCREASED  
BACK-UP**

Note: Color of the product may vary from the original color in this document.

This catalogue is issued to provide outline information only and is not deemed to form part of an offer or contract. Our policy is one of continued improvement and we reserve the right to change details without prior notice.



Range available: 50Ah to 200Ah

#### Product Features :-

1. Robust Tubular with High Pressure diecasted spine- resulting low rate of spine corrosion.
2. Spill Proof Vent plug – resulting in no spillage on top and low controlled acid fumes.
3. Optimized Negative paste receipt for fast charge acceptance
4. Consistent backup throughout life
5. Excellent behavior in PSOC condition as compare
6. Low Self Discharge
7. Excellent performance on deep cyclic application as compare to AGM VRLA
8. Patented Design & Service Life
9. Low water loss

#### TECHNICAL DATA

Type of Battery	Nominal Voltage	Capacity@C10	Dimensions mm (LxWxH)+/-3mm	Gross Battery weight+/-3% [Kg]	Battery Layout
IL 50	12	50	410X177X275	27	-[ ][ ][ ][ ]+
IL 75	12	75	508X222X257	36	-[ ][ ][ ][ ]+
IL 100	12	100	473X190X445	50	-[ ][ ][ ][ ]+
IL 150	12	150	506X190X479	62	-[ ][ ][ ][ ]+
IL 200	12	200	506X190X479	70	-[ ][ ][ ][ ]+

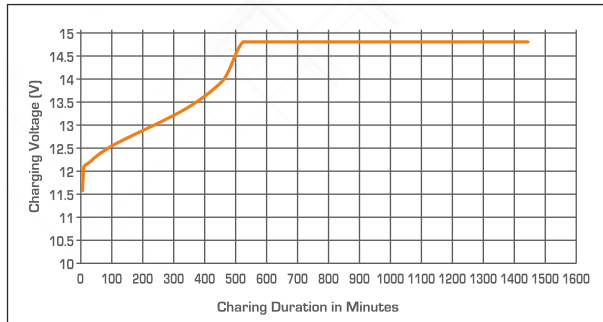
Battery Specified Capacity Test @ 27°C				
MODEL	C10 @ 10.5V	C5 @ 10.5V	C3 @ 10.5V	C1 @ 10.5V
IL 50 (12 V 50AH @ C10)	50	43	37	30
IL 75 (12 V 75AH @ C10)	75	64	54	42
IL 100 (12 V 100AH @ C10)	100	86	75	55
IL 150 (12 V 150AH @ C10)	150	127	110	85
IL 200 (12 V 200AH @ C10)	200	170	147	114

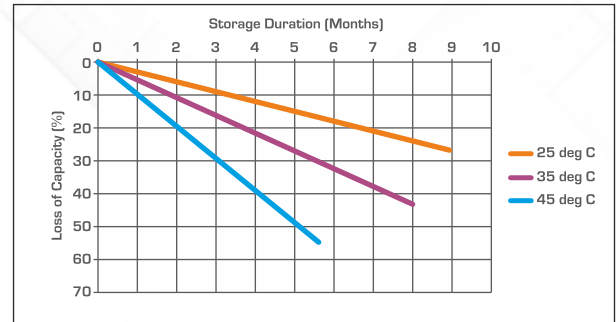
Ah & Wh Efficiency			
Ah Efficiency	>90%	Wh Efficiency	>75%

- **Poly Components Material:** Polypropylene Co polymer
- **Watering system :** Individual to every cell in Monobloc
- **Color :** Blue
- **Testing Parameters :** IS 13369:1992 & IEC 61427

**Charging Profile**



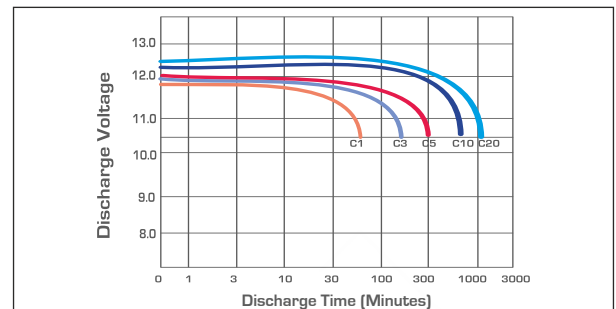
**Self Discharge Characteristics @ Different Temperature**



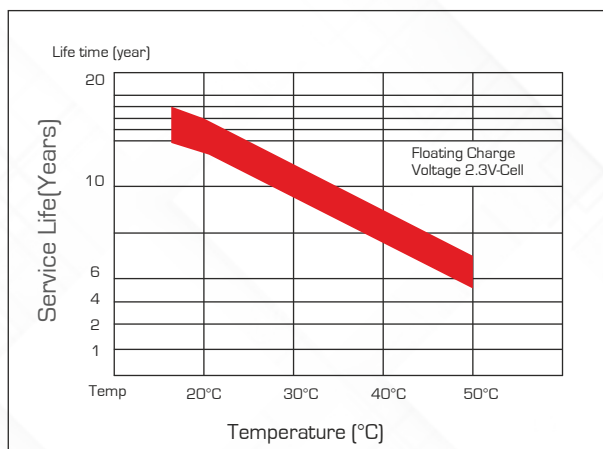
**State of Charge Measure of Open-circuit Voltage @ 27°C**

State of Charge	Specific Gravity	Voltage
100%	1.240±10	12.55V-12.70V
75%	1.125±10	≤12.4V
50%	1.200±10	≤12.1V
25%	1.175±10	≤12.0V
0%	1.150±10	11.8V

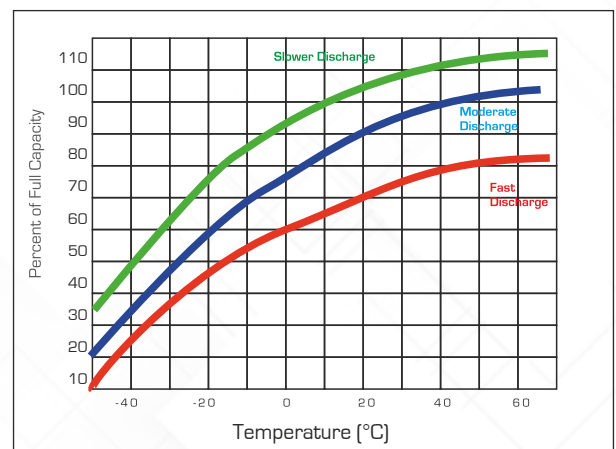
**Discharging Characteristics at various rates @ 27°C**



**Service (Float) Life and Temperature**



**Expected Capacity vs Temperature**



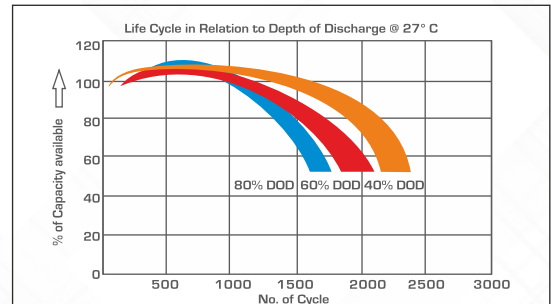
**Interlight Battery Manufacturing Certified by**



## Specific Gravity & Self Discharge w.r.t. Temperature

	Add	Subtract
CHARGING TEMPERATURE COMPENSATION	0.005 volt per cell for every 1°C below 25°C	0.005 volt per cell for every 1°C above 25°C or
	0.0028 volt per cell for every 1°F below 77°F	0.0028 volt per cell for every 1°F above 77°F
OPERATIONAL DATA	Operating Temperature	Self Discharge
	-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	As per discharge Graph

## Expected Life



## Charging Instructions

Charger Voltage Settings (at 77° F/ 25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	0.2C10		
Maximum Absorption Phase Time (hours)	4		
Absorption Voltage	14.4	28.8	57.6
Float Voltage	13.6	27.2	54.4
Equalization Voltage	16	32	64
Do not install or charge batteries in a sealer or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.			
Periodic Charge	Provide a periodic freshening charge to maintain a SOC greater than the threshold of 70%		

## Terminal Configuration

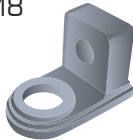
**Terminal Type :** L

**Terminal Height :** 26.5 mm

**Terminal Width :** 25.7 mm

**Terminal Length :** 42 mm

**Bolt Type :** M8



## Flot Type

Locking Flot indicator cum watering lid for each cell



## Recycle Responsibly



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Meets IEC 61427-1 Specifications

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