



SOLAR TUBULAR BATTERIES

50Ah to 200Ah



MEETS IEC 61427-1 SPECIFICATIONS

CHARGE
YOUR
TOMORROW

INTERLIGHT®



NO
INTERNAL PACKING



PATENTED CONTAINER
287292, 287295



LOW
MAINTENANCE



PARTIAL STATE OF
CHARGE CONDITION



FASTER
RECHARGE



LONGER
LIFE



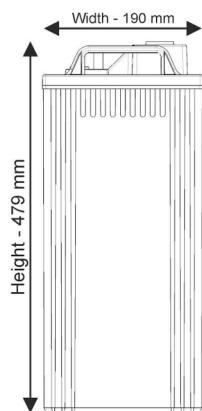
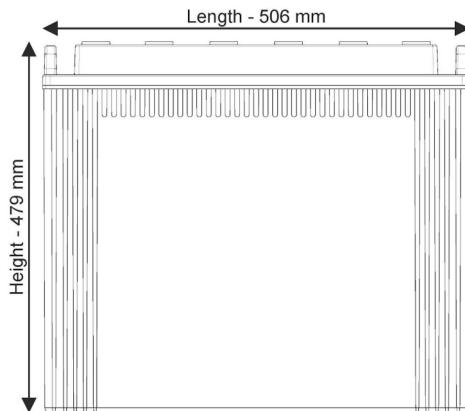
SUPERIOR
VOLTAGE



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.



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

Range available: 50Ah to 200Ah

 **TECHNICAL DATA**

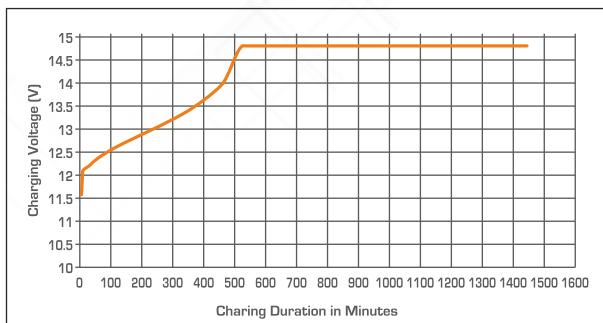
Type of Battery	Nominal Voltage	Capacity@C10	Dimensions mm [LxWxH]+/-3mm	Gross Battery weight+/-3% [Kg]	Battery Layout
IL 50	12	50	410X177X275	27	-□□□□□-
IL 75	12	75	508X222X257	36	-□□□□□-
IL 100	12	100	473X190X445	50	-□□□□□-
IL 150	12	150	506X190X479	62	-□□□□□-
IL 200	12	200	506X190X479	70	-□□□□□-

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



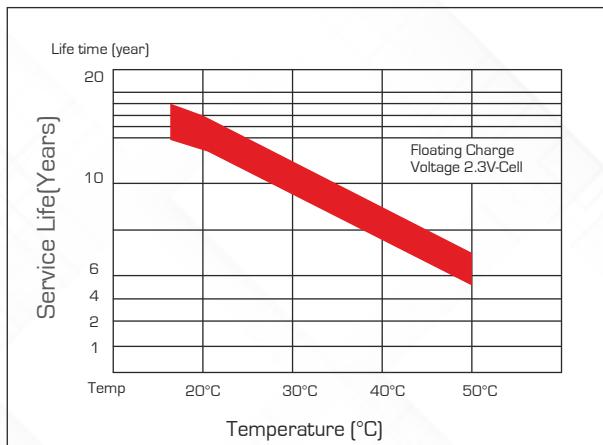
Self Discharge Characteristics @ Different Temperature



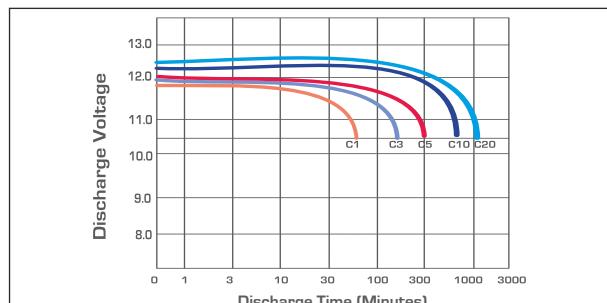
State of Charge Measure of Open-circuit Voltage @ 27°C

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

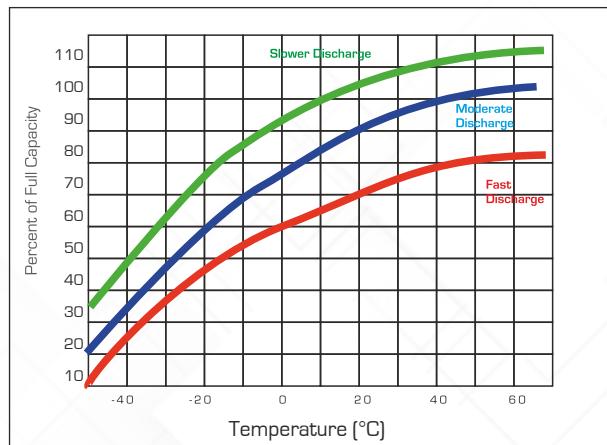
Service (Float) Life and Temperature



Discharging Characteristics at various rates @ 27°C



Expected Capacity vs Temperature



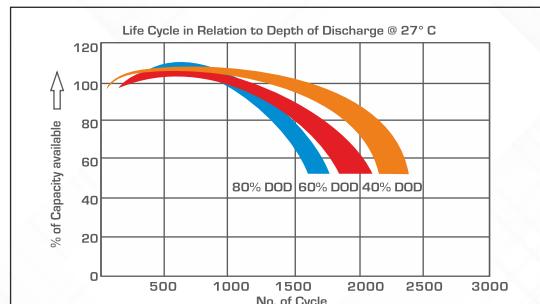
Interlight Battery Manufacturing Certified by



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 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C or 0.0028 volt per cell for every 1°F above 77°F
OPERATIONAL DATA	Operating Temperature -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%.	Self Discharge 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

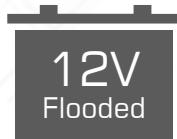


Flot Type

Locking Flot indigator cum watering lid for each cell



Recycle Responsibly



© 2023 Interlight Technologies Private Limited. All rights reserved. Interlight Technologies Private Limited is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Interlight Technologies Private Limited reserves the right to make adjustments to this publication at any time, without notice or obligation.

