

# INTERLIGHT<sup>®</sup>

CHARGE YOUR TOMORROW

170Ah to 350Ah



## Power That Keeps You Moving

# Durable, Reliable & Unstoppable

Tall Tubular Batteries For Inverter & Solar

**CHARGE  
YOUR  
TOMORROW**

**INTERLIGHT<sup>®</sup>**



**NO  
INTERNAL PACKING**



**LOW  
MAINTENANCE**



**FASTER  
RECHARGE**



**SUPERIOR  
VOLTAGE**



**PATENTED CONTAINER**  
287292, 287295



**PARTIAL STATE OF  
CHARGE CONDITION**



**LONGER  
LIFE**



**INCREASED  
BACK-UP**

**MEETS IEC 61427-1 SPECIFICATIONS**

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.

### Features

- Special Selenium alloy grid, casted at high pressure by pressure dye casting machine (PDC) for void free structure to provide longer life.
- 99.99% pure active material with finest quality red lead.
- Extra strong, flexible oxidation-resistant gauntlet for higher performance.
- Special Thick P.E separators are used to increase the efficiency & life.

### Benefits

- Long design life
- Very low maintenance
- Can handle extreme weather conditions
- Rugged Performance
- Longer life without charging



Range available: 170Ah to 350Ah

### TECHNICAL DATA

## TALL TUBULAR BATTERIES

Type of Battery	Nominal Voltage	Capacity@C20 at 27°C	Dimensions mm (LxWxH)+/-3mm	Gross Battery weight+/-3% [Kg]	Battery Layout
IL170DTT	12	170	473X190X445	56	- [ ] [ ] [ ] [ ] [ ] [ ] +
IL200DTT	12	200	473X190X445	62	- [ ] [ ] [ ] [ ] [ ] [ ] +
IL250DTT	12	250	473X190X445	63	- [ ] [ ] [ ] [ ] [ ] [ ] +
IL350DTT	12	350	506X190X479	78	- [ ] [ ] [ ] [ ] [ ] [ ] +

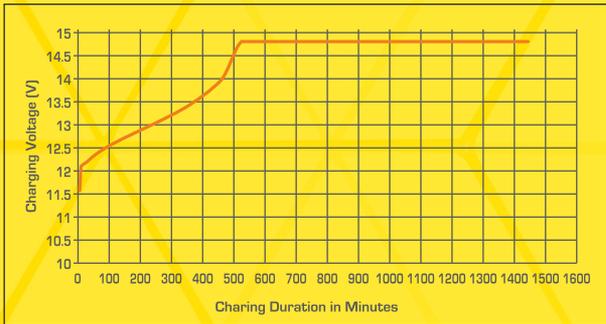
## Electrical Parameters & Charging Profile

Battery Specified Capacity Test @ 27°C					
MODEL	C20 @ 10.5V	C10 @ 10.5V	C5 @ 10.5V	C3 @ 10.5V	C1 @ 10.5V
IL170DTT (12 V 170AH @ C20)	170	150	128	110	85
IL200DTT (12 V 200AH @ C20)	200	170	150	130	100
IL250DTT (12 V 250AH @ C20)	250	220	185	162	125
IL350DTT (12 V 350AH @ C20)	350	308	260	225	175

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**



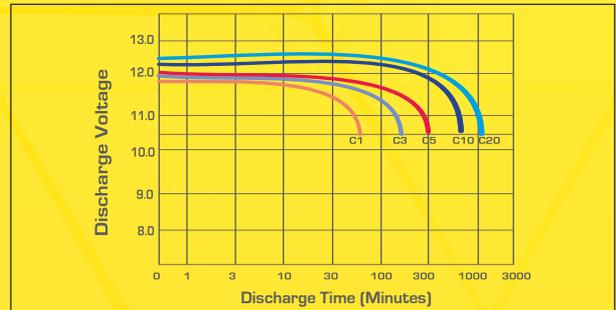
**Self Discharge Characteristics @ Different Temperature**



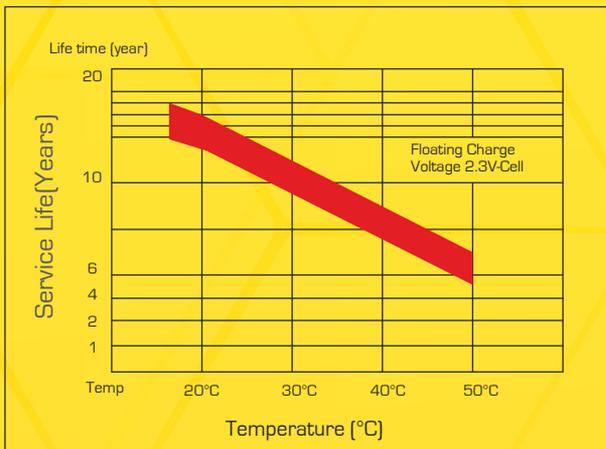
**State of Charge Measure of Open-circuit Voltage @ 27°C**

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

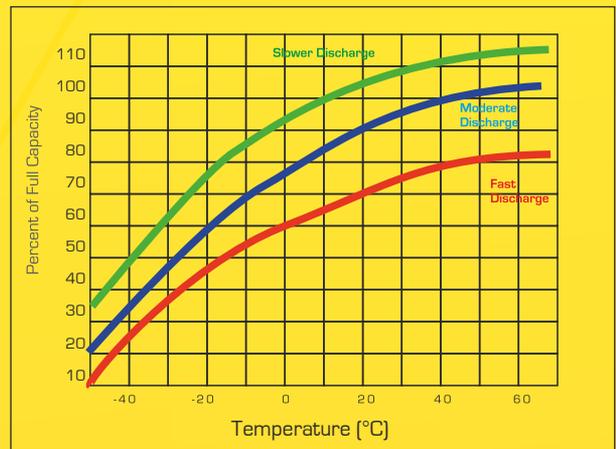
**Discharging Characteristics at various rates @ 27°C**



**Service (Float) Life and Temperature**



**Expected Capacity vs Temperature**



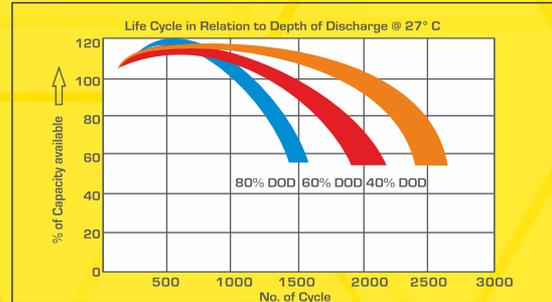
Interlight Battery Manufacturing Certified by



### 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 0.0028 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	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

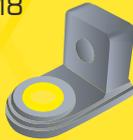


### Charging Instructions

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

