

INTERLIGHT[®]

CHARGE YOUR TOMORROW

50Ah to 350Ah



Power That Keeps You Moving Durable, Reliable & Unstoppable

Tall Tubular Batteries For Inverter & Solar

CHARGE
YOUR
TOMORROW

INTERLIGHT[®]



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: 50Ah to 350Ah

TECHNICAL DATA

TALL TUBULAR BATTERIES

| Type of Battery | Nominal Voltage | Capacity | Dimensions mm (LxWxH)+/-3mm | Gross Battery weight+/-3% [Kg] | Battery Layout | Batteries Per Pallet [Pcs.] | Pallet Weight [Kg] |
|-----------------|-----------------|----------|-----------------------------|--------------------------------|-------------------------|-----------------------------|--------------------|
| IL50 | 12 | 50 | 410X177X275 | 27 | - [] [] [] [] [] + | 42 | 1176 |
| IL75 | 12 | 75 | 508X222X257 | 33 | - [] [] [] [] [] + | 30 | 1032 |
| IL100 | 12 | 100 | 473X190X445 | 50 | - [] [] [] [] [] + | 22 | 1142 |
| IL150 | 12 | 150 | 506X190X479 | 62 | - [] [] [] [] [] + | 22 | 1406 |
| IL200 | 12 | 200 | 506X190X479 | 68 | - [] [] [] [] [] + | 22 | 1538 |
| IL250 | 12 | 250 | 506X190X479 | 70 | - [] [] [] [] [] + | 22 | 1582 |
| IL350 | 12 | 350 | 506X190X479 | 77 | - [] [] [] [] [] + | 22 | 1736 |

Electrical Parameters & Charging Profile

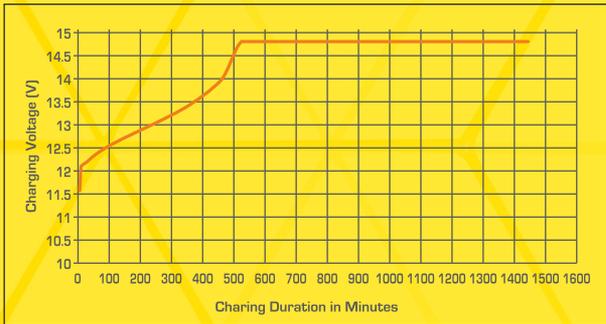
| Battery Specified Capacity Test @ 27°C | | | | | |
|--|-------------|-------------|------------|------------|------------|
| MODEL | C20 @ 10.5V | C10 @ 10.5V | C5 @ 10.5V | C3 @ 10.5V | C1 @ 10.5V |
| IL50 (12 V 50AH @ C20) | 50 | 44 | 38 | 32 | 25 |
| IL75 (12 V 75AH @ C20) | 75 | 66 | 57 | 48 | 38 |
| IL100 (12 V 100AH @ C20) | 100 | 88 | 75 | 65 | 50 |
| IL150 (12 V 150AH @ C20) | 150 | 132 | 113 | 97 | 75 |
| IL200 (12 V 200AH @ C20) | 200 | 176 | 150 | 129 | 100 |
| IL250 (12 V 250AH @ C20) | 250 | 220 | 188 | 162 | 125 |
| IL350 (12 V 350AH @ C20) | 350 | 308 | 263 | 226 | 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



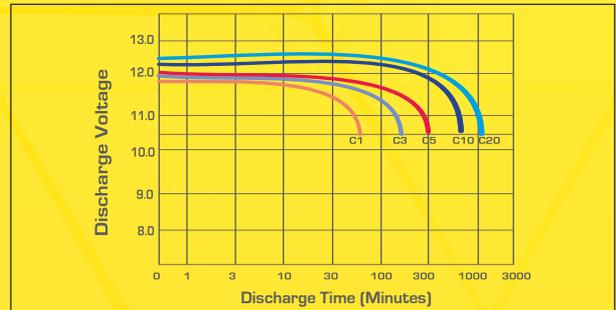
Self Discharge Characteristics @ Different Temperature



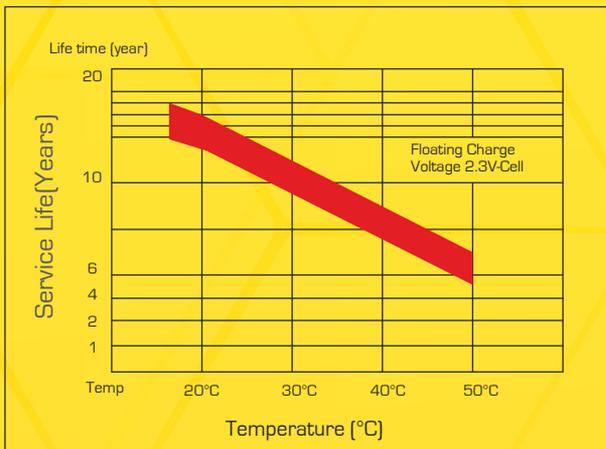
State of Charge Measure of Open-circuit Voltage @ 27°C

| 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 |

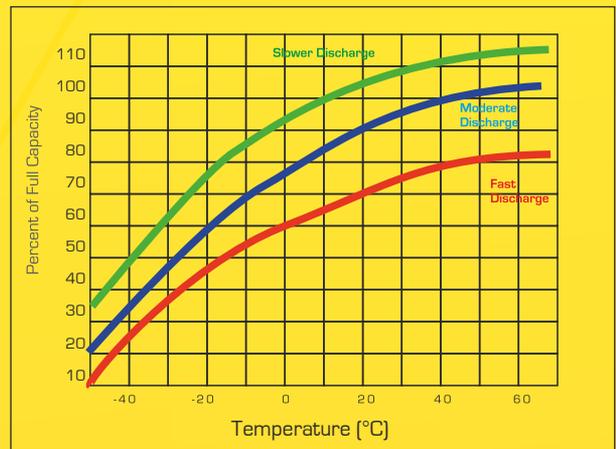
Discharging Characteristics at various rates @ 27°C



Service (Float) Life and Temperature



Expected Capacity vs Temperature



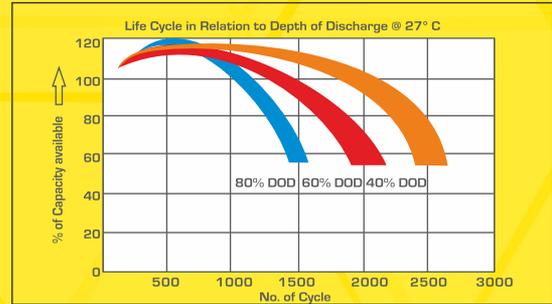
Interlight Battery Manufacturing Certified by



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

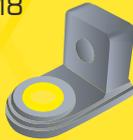


Charging Instructions

| 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

