

# INTERLIGHT<sup>®</sup>

CHARGE YOUR TOMORROW



## NRGT Series Batteries

220Ah to 260Ah



MEETS IEC 61427-1 SPECIFICATIONS

CHARGE  
YOUR  
TOMORROW

INTERLIGHT<sup>®</sup>



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: 220Ah to 260Ah

### TECHNICAL DATA

## NRGT TUBULAR BATTERIES

Type of Battery	Nominal Voltage	Capacity	Dimensions mm (LxWxH)+/-3mm	Gross Battery weight+/-3% [Kg]	Battery Layout
TT220IT-NRGT	12	220	506X190X479	62	- □ □ □ □ □ +
TT240IT-NRGT	12	240	506X190X479	66	- □ □ □ □ □ +
TT260IT-NRGT	12	260	506X190X479	68	- □ □ □ □ □ +

### Electrical Parameters & Charging Profile

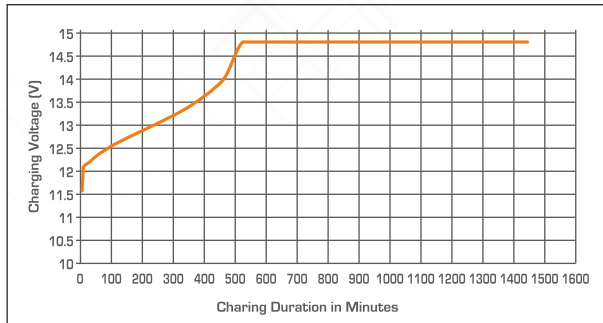
Battery Specified Capacity Test @ 27°C					
MODEL	C20 @ 10.5V	C10 @ 10.5V	C5 @ 10.5V	C3 @ 10.5V	C1 @ 10.5V
IL 220IT-NRGT (12 V 220AH @ C20)	220	187	165	142	110
IL 240IT-NRGT (12 V 240AH @ C20)	240	204	180	155	120
IL 260IT-NRGT (12 V 260AH @ C20)	260	220	195	168	130

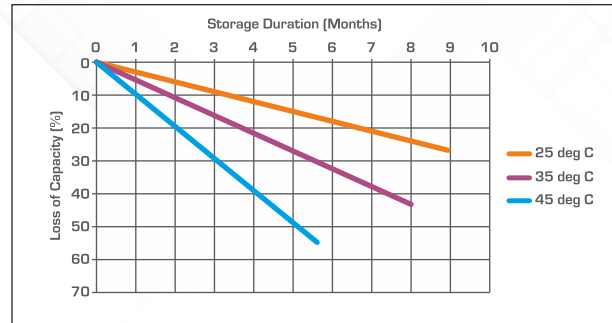
Ah & Wh Efficiency			
Ah Efficiency	>90%	Wh Efficiency	>75%

- **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**



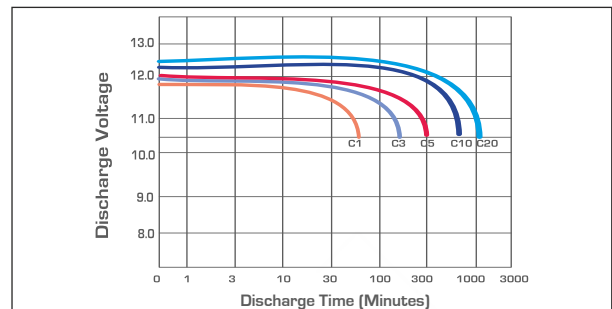
**Self Discharge Characteristics @ Different Temperature**



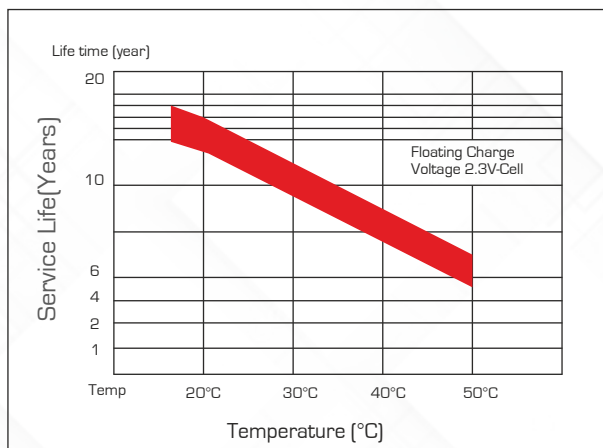
**State of Charge Measure of Open-circuit Voltage @ 27°C**

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

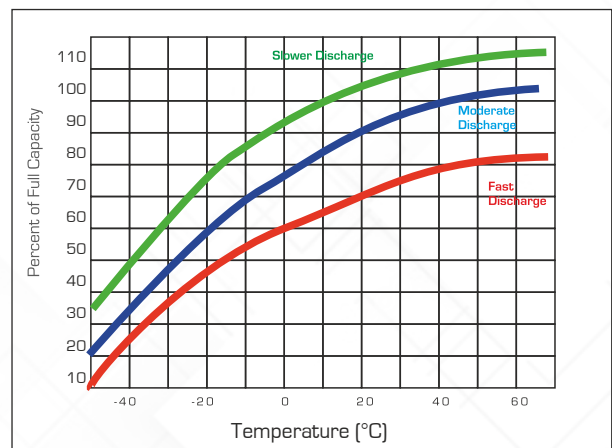
**Discharging Characteristics at various rates @ 27°C**



**Service (Float) Life and Temperature**



**Expected Capacity vs Temperature**



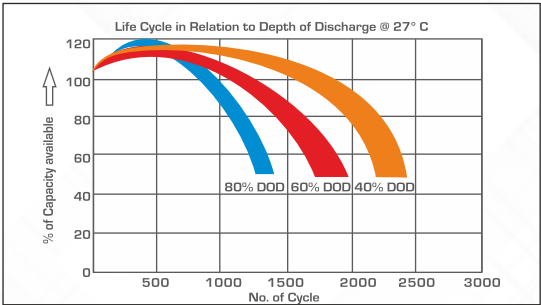
**Interlight Battery Manufacturing Certified by**



### 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 -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

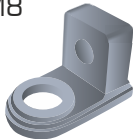


### Charging Instructions

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

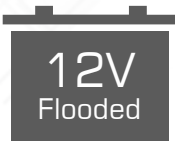
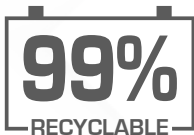


### Flot Type

Locking Flot indigator cum  
 watering lid for each cell



## Recycle Responsibly



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**IEC** Meets IEC 61427-1  
 Specifications

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