



12V

50Ah

SLA

AGM

## 12TP50FT-FR

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity</b>		
<b>20 hour rate</b> (2.5A to 10.5V)	50Ah	
<b>10 hour rate</b> (4.75A to 10.5V)	47.5Ah	
<b>5 hour rate</b> (8.5A to 10.2V)	42.5Ah	
<b>1C</b> (50A to 9.6V)	31.67Ah	
<b>3C</b> (150A to 9.6V)	20Ah	
<b>Weight</b>	Approx. 15kg	
<b>Internal Resistance</b> (at 1KHz)	Approx. 5mΩ	
<b>Maximum Discharge Current</b> (5 secs)	300A	
<b>Charge Methods at 25°C</b>		
<b>Cycle Use</b>		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	15A	
<b>Standby Use</b>		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
<b>Operating Temperature Range</b>		
<b>Charge</b>	-15°C to 40°C	
<b>Discharge</b>	-15°C to 50°C	
<b>Storage</b>	-15°C to 40°C	
<b>Charge Retention (Shelf Life) at 20°C</b>		
<b>1 month</b>	0.98	
<b>3 months</b>	0.94	
<b>6 months</b>	0.85	
<b>Case Material</b>	UL94 V-0 Flame Retardant	
<b>Termination</b>	F8 (M6 Bolt)	

#### Description of Torque Value of Hardware for the Terminals

Recommended Torque Value      M6: 7 N-m (71kgf-cm)  
 Max. Allowable Torque Value      M6: 10 N-m (102kgf-cm)

<b>Design Life</b>	12 Years
--------------------	----------

#### Classified as a non-spillable battery.

- Approved for transportation by:
- Air (IATA/ICAO provision A67)
  - Road
  - Sea (per IMDG Special Provision 238)

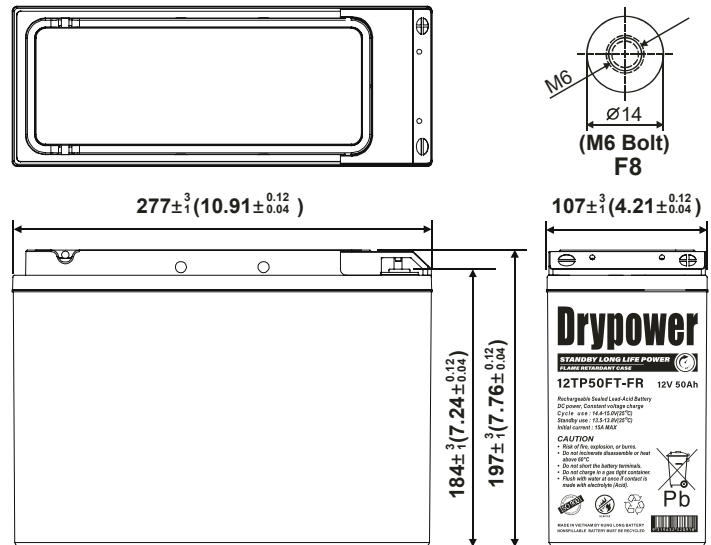


<b>Barcode</b>	 9319632520918
----------------	--

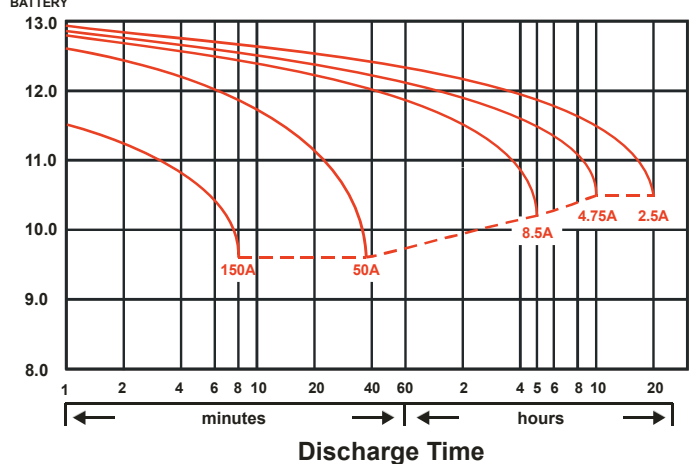


### DIMENSIONS

mm (inch)

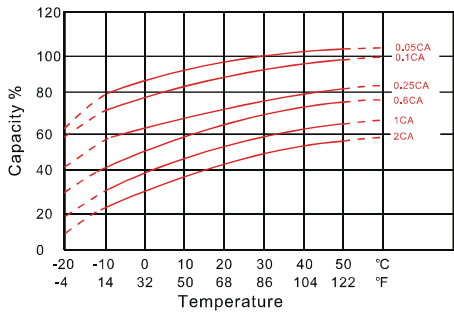


### Discharge Time VS. Discharge Current (20°C)

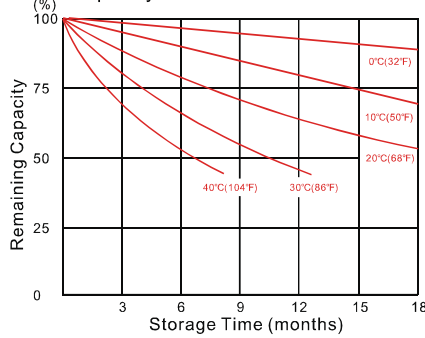


### CHARACTERISTICS CHARTS

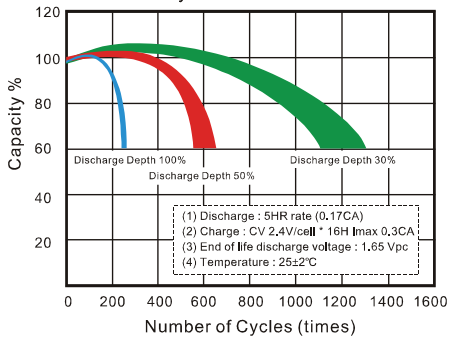
Effect of Temperature on Capacity 25°C(77°F)



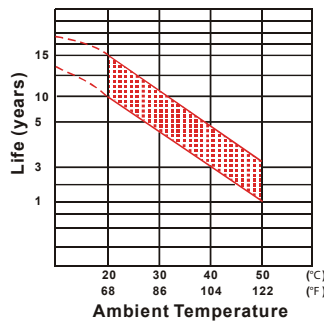
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



### FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- ◆ Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- ◆ High rate discharge capable to ensure reliable performance.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Manufactured by Kung Long Battery (KLB) at facilities in Taiwan and Vietnam. KLB is a leading manufacturer and complies with relevant international quality standards including ISO9001, CE ETL9000, UL1989, OHSAS18001 and ISO17025. KLB supports Green Sustainable supply chain practices.



### PERFORMANCE DATA