



**ENERCON SOLAR**

**FM12V18 LY**  
*Maintenance-Free Rechargeable Sealed Lead-acid Battery*

**SPECIFICATIONS**

Nominal Voltage (V) 12V  
 Rated Capacity:  
     20hour rate (0.85A 10.80V) 18.0AH  
     10hour rate (1.62A 10.50V) 16.2AH  
     5hour rate (2.86A 10.20V) 14.3AH  
     1hour rate (10.2A to 9.6V) 10.2AH  
 Weight: 5.2kg  
 Internal Resistance (at 1 KHz) 12mΩ  
 Maximum Discharge Current for  
     5 seconds: 170.0A

Operating Temperature Range  
 Charge -20°C(-4°F) to 40°C(104°F)  
 Discharge -30°C(-22°F) to 50°C(122°F)  
 Storage -30°C(-22°F) to 40°C(104°F)  
 Charge Retention (shelf life) at 20°C(68°F)  
     3 month 92%  
     6 month 83%  
     12 month 65%

Charging Methods at 25°C (77°F)  
     Charging Voltage 14.5to14.9V  
     Average charging voltage: 14.1to14.3V  
     Maximum Charging Current 5.10A

Standby use:  
     Float Charging Voltage 13.5to13.8V  
     No current limit required

is charge Current VS. Discharge Voltage

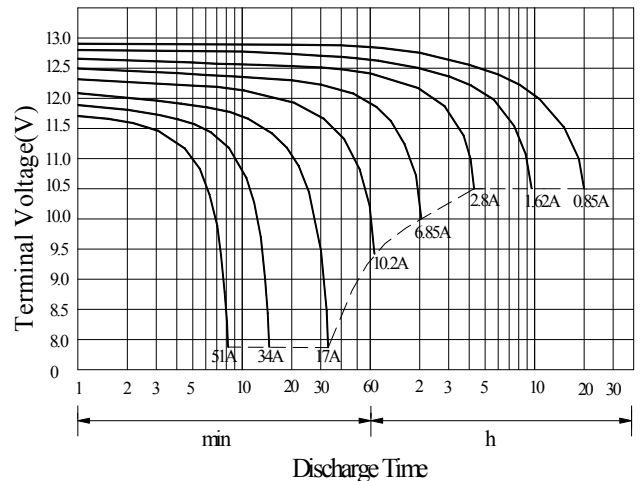
Final Discharge Voltage (V)	10.5V	10.2V	9.6V
Discharge current(A)	(A)≤3.4	3.4≤(A)≤17	(A)≥17

Life expectancy:  
 Cycle Use: 100% depth discharge 350cycles  
             50% depth discharge 700cycles  
             20% depth discharge 1200cycles  
 Standby Use: 2-3 years  
 Case Material: ABS  
 Terminal: F18  
 Dimensions: L181\*W77\*168(mm)  
             Total Height (with terminals) 168(mm)

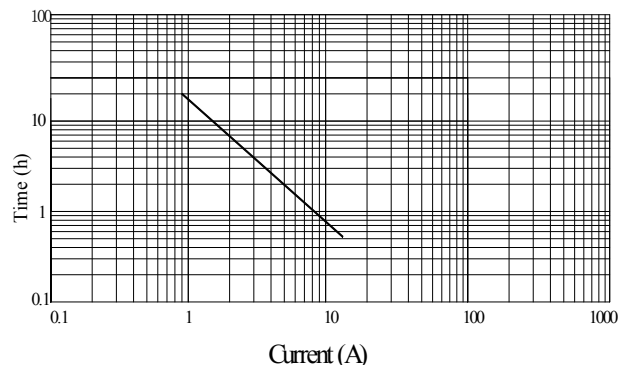
**Product picture**



**Discharge characteristic Curve**



**Discharge Time vs. Discharge Current**



\*The above data are of average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values.