

## Specifications

Nominal Voltage (V)		12	
Nominal Capacity (AH)		80	
Dimensions	Length	350 mm	13.78 inch
	Width	167 mm	6.57 inch
	Height	179 mm	7.05 inch
	Total Height	179 mm	7.05 inch
Approx. Weight		27.64 kgs	60.94 lbs
Standard Terminals		V4	
Case Material		ABS UL 94-HB	

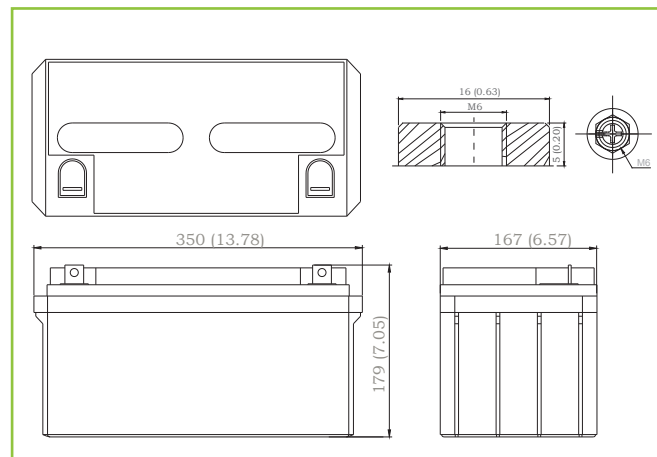
## Characteristics

Capacity	100 hour rate	0.88 A	88.00 Ah
	20 hour rate	4.00 A	80.00 Ah
	10 hour rate	7.84 A	78.40 Ah
	5 hour rate	12.00 A	60.00 Ah
	1 hour rate	44.00 A	44.00 Ah
Internal Resistance		4.50 mΩ	
Max. Discharge Current ( 5 sec )		2667 A	
Constant Voltage Charge Method	Max. Charge Current	16 A	
	Standby Use	2.23 - 2.27 V /Cell	
	Cycle Use	2.33 - 2.37 V /Cell	
Operating Temperature Range	Discharge:	-20 ~ 55 °C ( -4 ~ 131°F)	
	Charge:	-10 ~ 55 °C ( 14 ~ 131°F)	
	Storage:	-20 ~ 55 °C ( -4 ~ 131°F)	
Temperature coefficient	For standby use:	-3.0mV / °C /Cell	
	For cycle use:	-3.3mV / °C /Cell	
Self discharge 25°C (77°F)	After 3-month	94%	
	After 6-month	88%	
	After 12-month	76%	
Temperature dependency of Capacity	40 °C (104 °F)	104%	
	25 °C (77 °F)	100%	
	0 °C (32 °F)	85%	
	-20 °C (5 °F)	65%	

## Capacity with Different Temperature

Temperature	-20°C	-10°C	0°C	25°C	40°C
Capacity	60%	75%	85%	100%	104%

## Dimensions



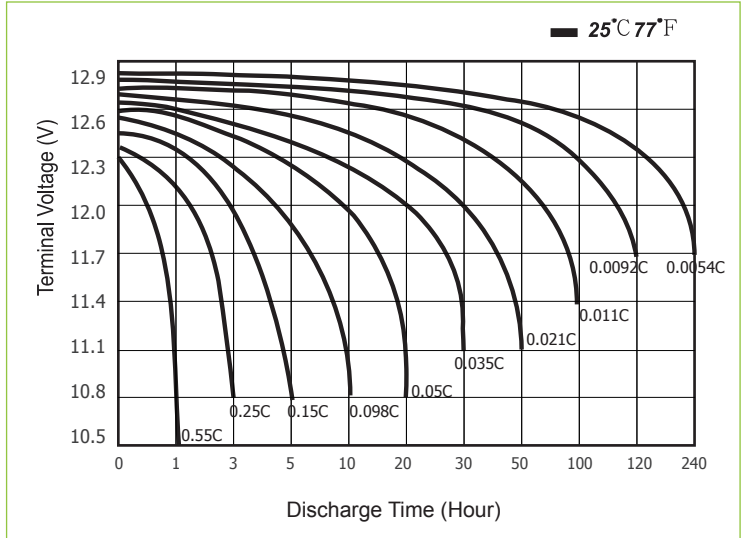
# LVJ 80-12



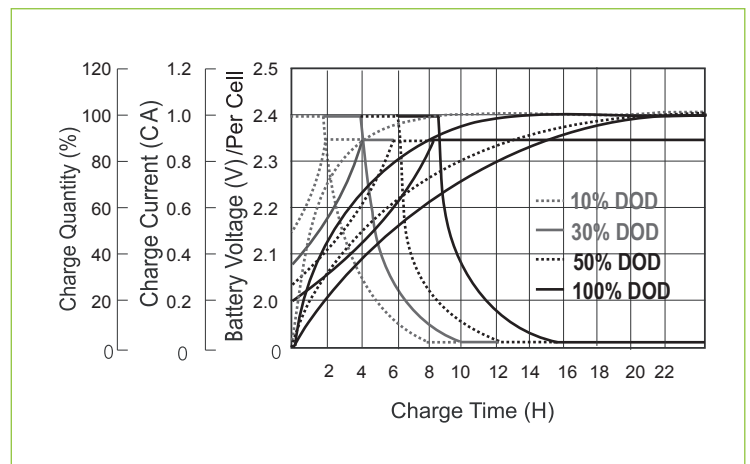
LVJ 80-12 VRLA (valve-regulated lead acid) GEL battery is designed with 12 years float life at 25°C for wide ranging applications. With superfluous electrolyte evenly distributed in a special PVC-SiO<sub>2</sub> separator and a patented grid design, this battery is perfect for cyclic use, and has a greater ability to withstand heat and deep discharge. Recommended for use with photovoltaic and wind power systems. LiVEN is ISO9001 and UL certified for quality assurance.



## Terminal Voltage (V) and Discharge Time



## Battery Voltage and Charge Time for Standby Use



## Cycle Service Life

