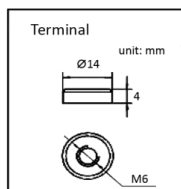
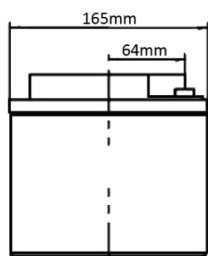
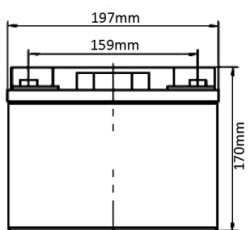
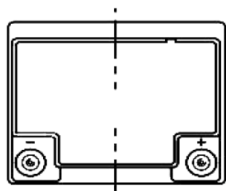


# LP 12-45 VRLA Battery 12V 45Ah



## Product Dimensions



## Applications

- All Purpose
- Uninterruptible Power Supply (UPS)
- Electronic Power System
- Emergency Backup Power Supply
- Electronic apparatus and equipment
- Communication Power Supply

## Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		45Ah
Capacity 25°C	20 hour rate (2.11 A)	48Ah
	5 hour rate (6.9 A)	42Ah
	1 hour rate (25.3 A)	27.5Ah
Internal Resistance	Full Charged Battery 25°C	≤8mΩ
Capacity affected by temperature (10 hour)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge 25°C Capacity	After 3 month storage	90%
	After 6 month storage	80%
	After 12 month storage	62%
Charge (Constant Voltage) 25°C	Float	Initial charging Current Less than 11.2A Voltage 13.6-13.8V
	Cycle	Initial charging Current Less than 11.2A Voltage 14.4-14.9V

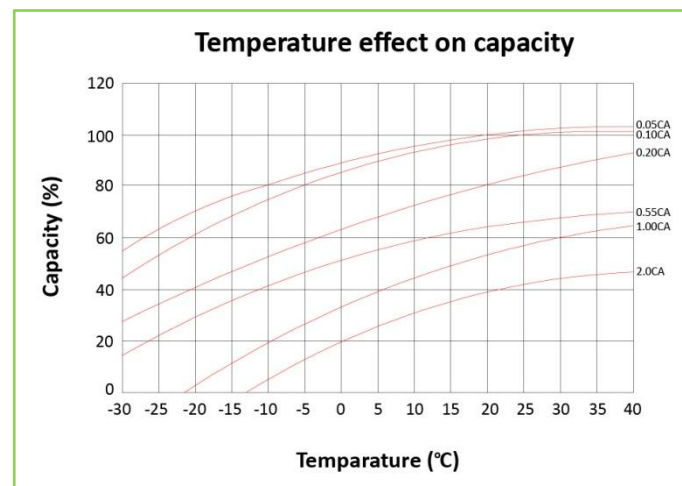
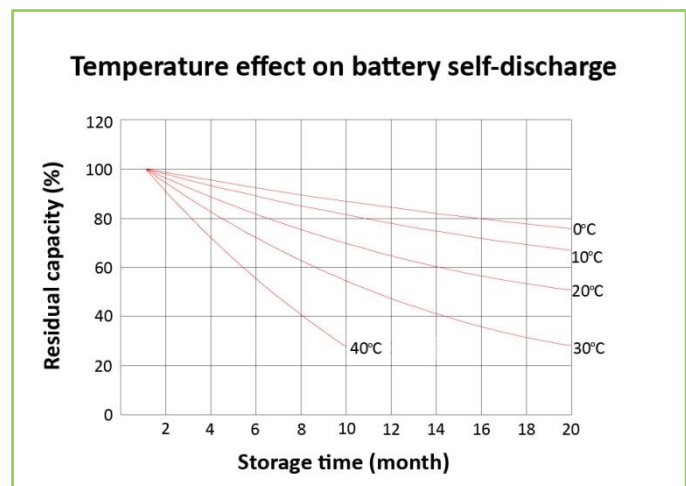
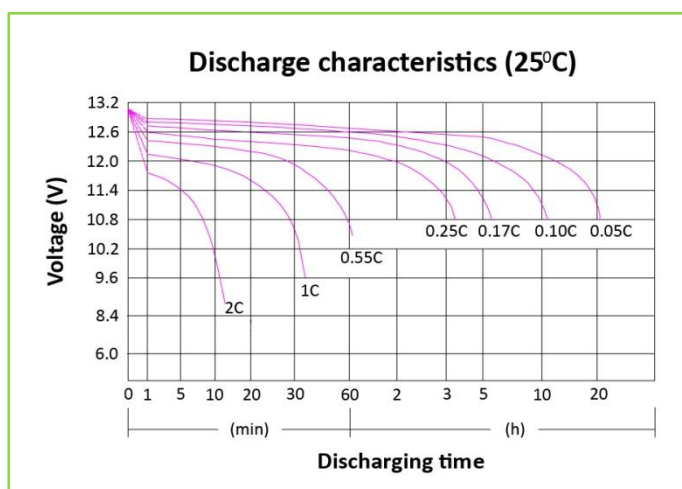
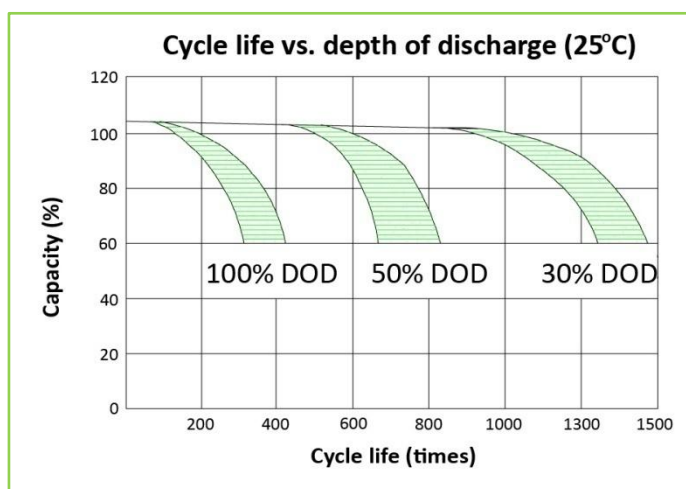
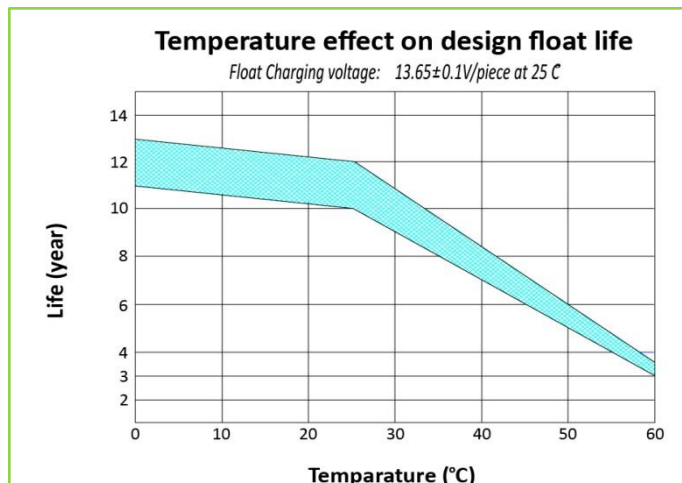
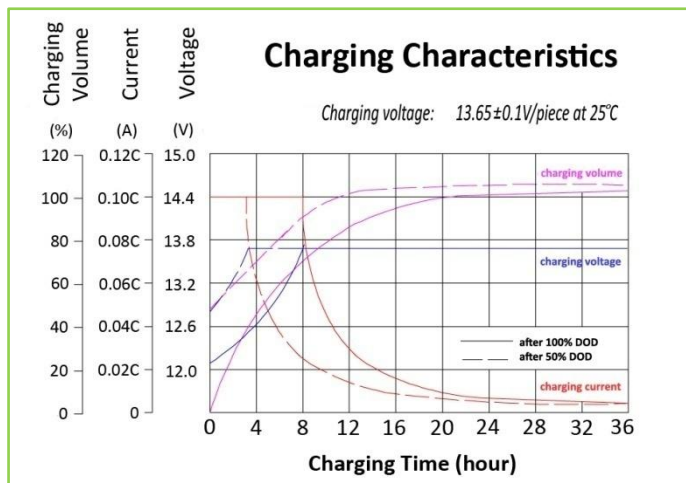
## Packaging

Battery Dimensions	Length	197mm
	Width	165mm
	Height	170mm
	Total Height	170mm
Box Dimensions	Length	213mm
	Width	179mm
	Height	211mm
Quantity per Box		1 PC per box
Net Weight per Cell		14.5kg±3%
Net Weight per Box		14.5kg
Gross Weight		14.8kg

## 10 Years Design Life

Discharge Constant Current per Cell (Amperes at 25°C)*												
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	119.1	84.9	76.0	47.3	33.9	29.9	18.2	13.3	8.6	5.2	4.7	2.5
1.65V	105.0	78.5	72.8	46.0	33.0	29.1	17.9	13.1	8.5	5.2	4.6	2.5
1.70V	94.2	72.8	69.6	44.7	32.1	28.3	17.6	12.9	8.3	5.1	4.6	2.4
1.75V	85.3	68.0	66.5	43.5	31.2	27.5	17.2	12.5	8.2	5.1	4.5	2.4
1.80V	75.6	61.2	63.3	42.2	30.3	26.7	16.7	12.2	8.1	5.0	4.5	2.4
Discharge Constant Power per Cell (Watts at 25°C)*												
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	222.1	158.3	141.7	88.2	63.3	55.8	34.0	24.9	16.0	9.8	8.7	4.6
1.65V	195.8	146.5	135.8	85.8	61.6	54.3	33.4	24.4	15.8	9.7	8.6	4.6
1.70V	175.6	135.9	129.9	83.4	59.9	52.8	32.8	24.0	15.6	9.6	8.6	4.5
1.75V	159.1	126.9	124.0	81.1	58.2	51.3	32.0	23.4	15.3	9.5	8.5	4.5
1.80V	141.0	114.1	118.1	78.7	56.5	49.9	31.2	22.8	15.1	9.4	8.4	4.4

## Performance Characteristics



## Battery Construction

Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Cooper	Fiberglass	Sulfuric acid

\*NOTE: These data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.