



# Valve Regulated Lead-Acid Rechargeable Battery



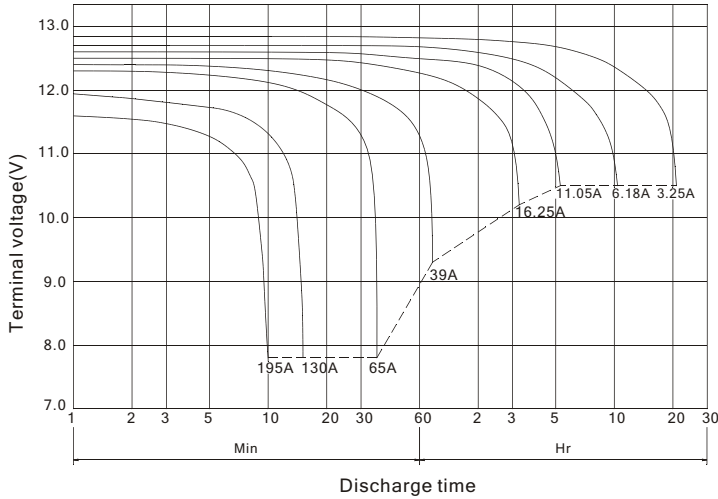
## EP65-12

The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

### PERFORMANCE SPECIFICATIONS

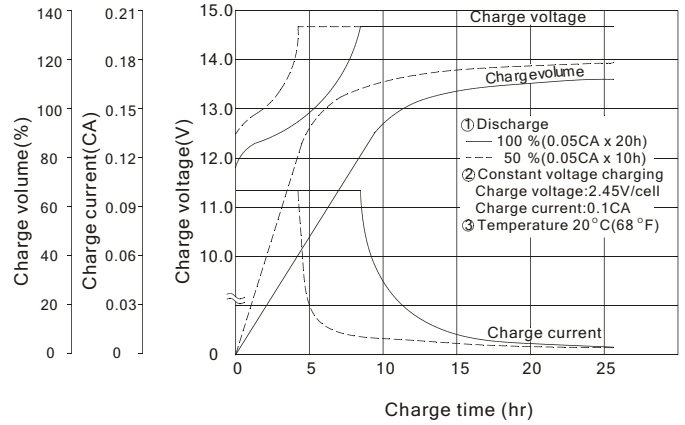
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (3.25A to 10.50volts) .....	65.0A.H.
10 Hour rate F.V.(1.75V/cell) (6.18A to 10.50volts) .....	61.8A.H.
5 Hour rate F.V.(1.75V/cell) (11.05A to 10.50volts) .....	55.3A.H.
30 Min rate F.V.(1.30V/cell) (65A to 7.80volts).....	32.5A.H.
Approximate Weight.....	25.0kg(55.13lbs.)
Terminal	
Standard.....	Type B5
Optional.....	Type I2
Internal Resistance (Fully Charged Battery).....	<6m Ω
Maximum Discharge Current For 5 sec.(A).....	650A
Maximum Charge Current(A).....	19.5A
Ambient Temperature	
Charge.....	0°C(32°F)~40°C(104°F)
Discharge.....	-20°C(-4°F)~50°C(122°F)
Storage.....	-20°C(-4°F)~40°C(104°F)
Vibration test:	
Frequency: 16.7Hz	
Amplitude: 4mm	
Vibrate the battery horizontally or vertically for 60 minutes. The battery have no abnormality.	
Case.....	ABS
Dimension(mm/inch)	
Length           ±2mm.....	350/13.78
Width           ±2mm.....	166/6.54
Container Height ±2mm.....	174/6.85
Total Height   ±2mm.....	174/6.85
Application.....	Lawn Mowers, Golf-Carts.

## EP65-12 Battery discharge characteristics (25 °C/77 °F)



## Battery Charging Characteristics

(Typical example of the charge characteristic for the cycle use)



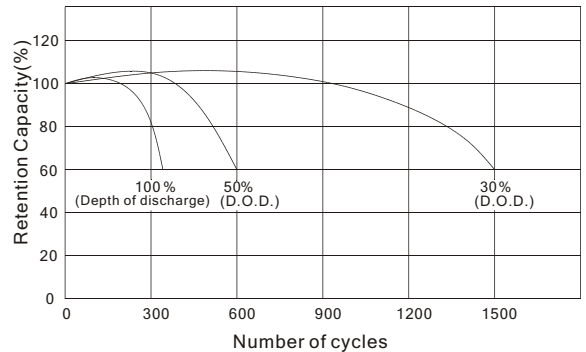
## Charging Procedure

Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/ °C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

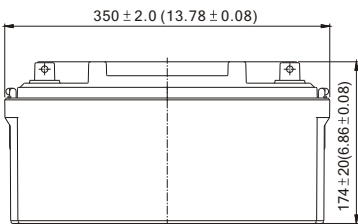
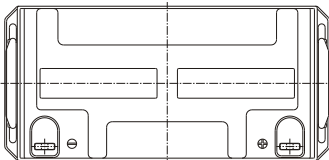
\*Temperature compensation of charging voltage is not needed, when using the batteries within 5 °C to 35 °C range.

## Battery Life Characteristics of Cyclic Use

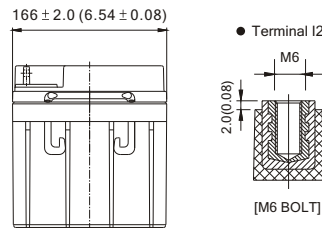
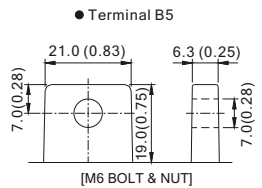
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)  
Charging Current : 0.1C Amp  
Charging Volume : 120% OF Discharge Capacity  
Ambient Temperature : 20C (68F)



## OUTER DIMENSIONS mm(inch)



## TERMINAL TYPE mm(inch)



## Constant power discharge characteristics at 25°C/77°F

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	2115	1592	1289	776	449	189	131	73	38.2
10.50V	2448	1724	1349	805	463	193	133	74.1	39
10.20V	2601	1787	1390	823	471	195	133.5	74.5	39.2
9.900V	2718	1829	1422	835	477	196	134	74.7	39.3
9.60V	2808	1866	1451	843	482	197	134	74.7	39.3

## TERMINAL POSITION



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