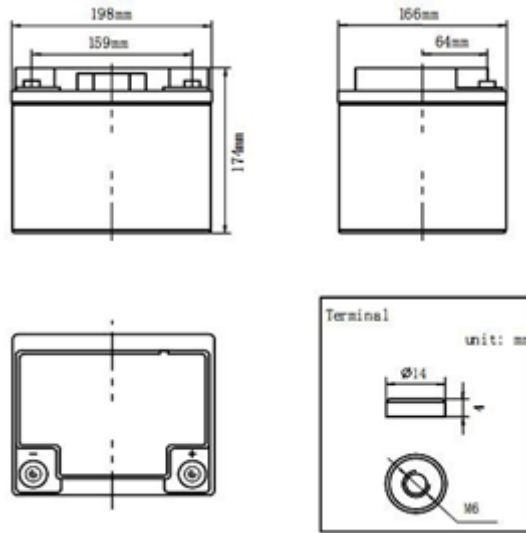


CHARACTERISTICS			
Nominal Voltage		12V	
Nominal Capacity (20 hour rate)		48Ah	
Capacity 25°C	10 hour rate (9.0A)	43.0Ah	
	5 hour rate (15.9A)	38.0Ah	
	1 hour rate (55.4A)	26.0Ah	
Internal Resistance		Full Charged Battery 25°C	≤10mΩ
Capacity affected by Temperature (10 hour)	40°C		102%
	25°C		100%
	0°C		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 10A Voltage 13.6-13.8V	
	Cycle	Initial Charging Current Less than 10A Voltage 14.4-14.9V	

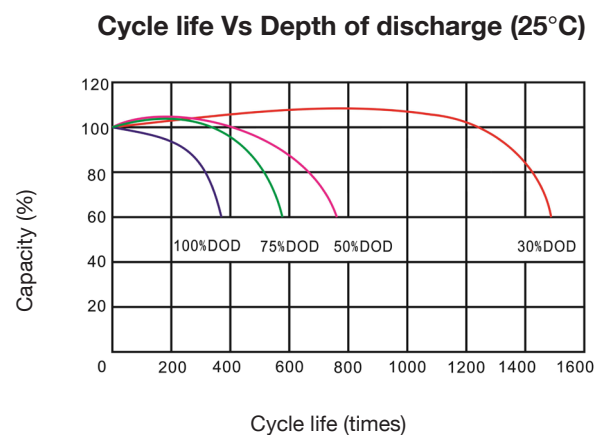
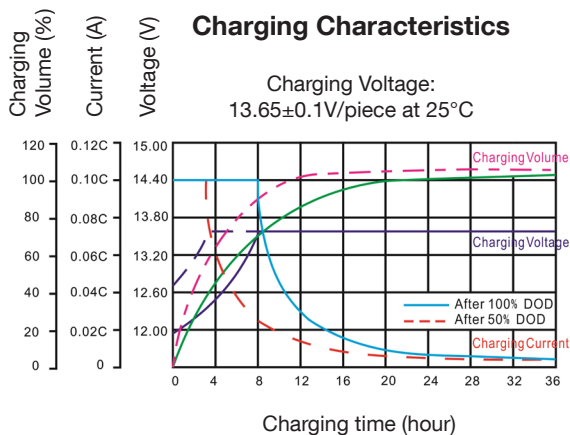


PACKAGING		
Battery Dimensions	Length	198mm
	Width	166mm
	Height	174mm
	Total Height	174mm
Quantity Per Box	1 PC per box	
Net weight Per Box	14.2kg	
Gross Weight	14.7kg	

### Discharge Constant Current per Cell (Amperes at 25°C)

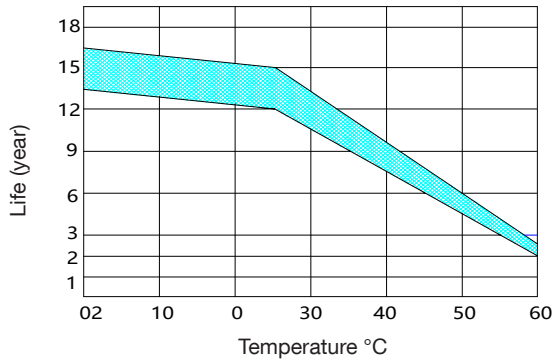
F.V/Time	30min	1h	2h	5h	10h	20h
1.60V	32.9	22.2	14.1	6.7	4.0	2.2
1.65V	32.3	21.8	13.8	6.6	3.9	2.16
1.70V	31.7	21.4	13.6	6.5	3.8	2.12
1.75V	31.1	21.0	13.3	6.4	3.7	2.08
1.80V	29.9	20.2	12.8	6.1	3.6	2.00

## PERFORMANCE CHARACTERISTICS

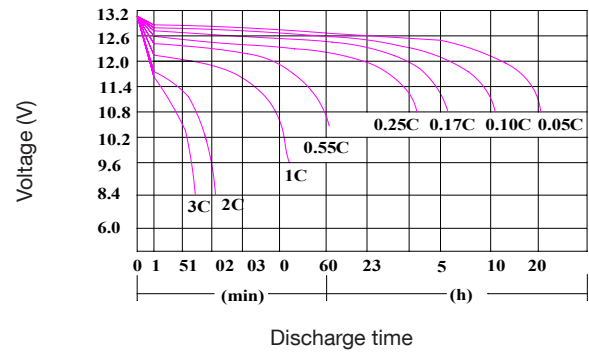


### Temperature effect on designed float life

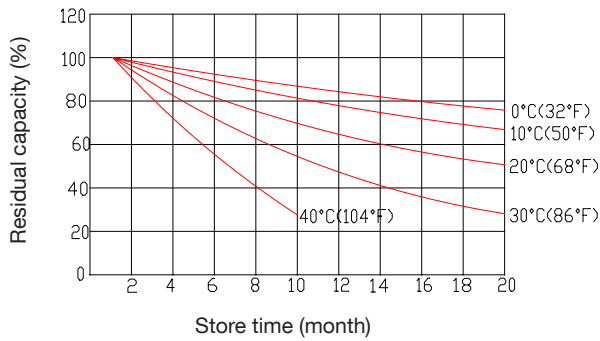
Float charging Voltage:  
13.65±0.01V/piece at 25°C



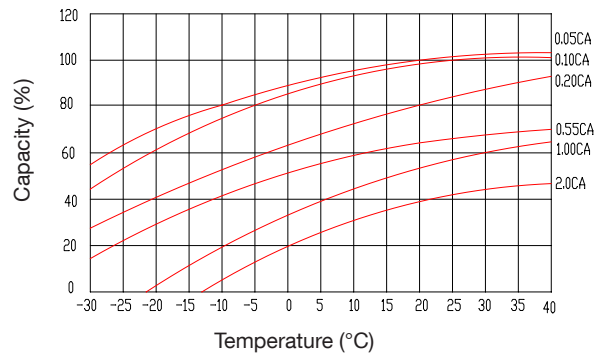
### Discharge characteristics (25°C)



### Temperature effect on battery self-discharge



### Temperature effect on capacity



### BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Copper	Fiberglass	Sulfuric acid