

BATTERY

Specification

Nominal Voltage	12V		
Nominal Capacity(10HR)	80.0AH		
Dimension	Length	259±3mm (10.2 inches)	
	Width	168±2mm (6.61 inches)	
	Container Height	208±3mm (8.19 inches)	
	Total Height (with Terminal)	214±3mm (8.43 inches)	
Approx Weight	Approx 23.8 kg		
Terminal	T3		
Container Material	ABS		
Rated Capacity	84.0	AH/4.0A	(20hr, 1.80V/cell, 25°C/77°F)
	80.0	AH/8.0A	(10hr, 1.75V/cell, 25°C/77°F)
	68.0	AH/13.6A	(5hr, 1.75V/cell, 25°C/77°F)
	60.0	AH/20A	(3hr, 1.75V/cell, 25°C/77°F)
	44.0	AH/44A	(1hr, 1.65V/cell, 25°C/77°F)
Max. Discharge Current	800A (5s)		
Internal Resistance	Approx 7.6mΩ		
Operating Temp.Range	Discharge : -20~55°C (-4~131°F)		
	Charge : 0~40°C (32~104°F)		
	Storage : -20~50°C (-4~122°F)		
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Cycle Use	Initial Charging Current less than 17.5A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C		
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C		
Capacity affected by Temperature	40°C	(104°F)	103%
	25°C	(77°F)	100%
	0°C	(32°F)	86%
Self Discharge	Pattern PG series battery may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		

6-GFM-80



Applications

- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats



Constant Current Discharge (Amperes) at 25 °C (77°F)

15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	V/cell
88.00	76.00	60.80	46.40	37.60	24.00	18.40	15.20	12.00	10.40	8.80	7.61	4.11	1.85
112.00	90.40	71.20	50.40	42.40	25.60	19.20	16.00	12.41	11.20	9.21	8.00	4.28	1.80
120.00	97.60	74.40	53.60	44.00	26.40	20.00	16.80	12.80	11.61	9.60	8.25	4.45	1.75
128.00	102.40	77.60	56.80	45.60	27.20	20.80	17.44	13.60	12.00	10.01	8.57	4.62	1.70
136.00	108.00	80.00	59.20	47.20	28.80	21.60	18.01	14.40	12.41	10.40	8.89	4.79	1.65
144.00	112.00	84.00	61.60	48.80	30.40	22.40	18.81	15.20	13.21	11.20	9.21	4.96	1.60

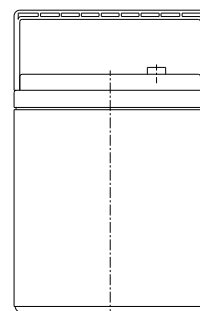
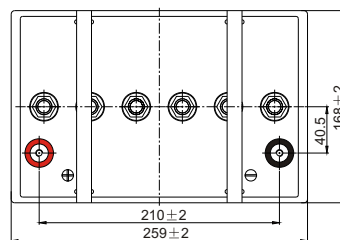
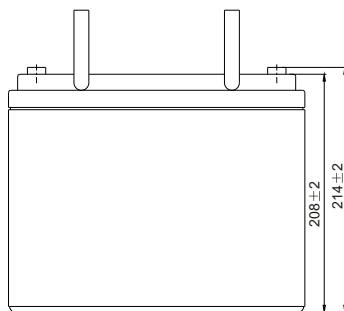
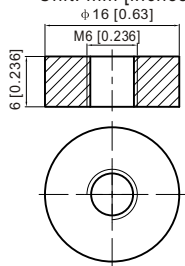
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	V/cell
162.81	140.60	112.48	85.85	69.56	44.41	34.04	28.12	22.20	19.24	16.28	14.06	7.61	1.85
201.60	162.72	128.16	90.72	76.32	46.08	34.56	28.80	22.33	20.16	16.57	14.40	7.70	1.80
210.01	170.81	130.20	93.80	77.00	46.20	35.00	29.40	22.40	20.30	16.80	14.42	7.79	1.75
217.60	174.08	131.93	96.57	77.53	46.24	35.36	29.65	23.13	20.41	17.00	14.55	7.86	1.70
224.41	178.20	132.00	97.69	77.88	47.52	35.64	29.70	23.77	20.46	17.16	14.66	7.91	1.65
230.40	179.20	134.40	98.56	78.08	48.64	35.84	30.08	24.32	21.12	17.92	14.72	7.95	1.60

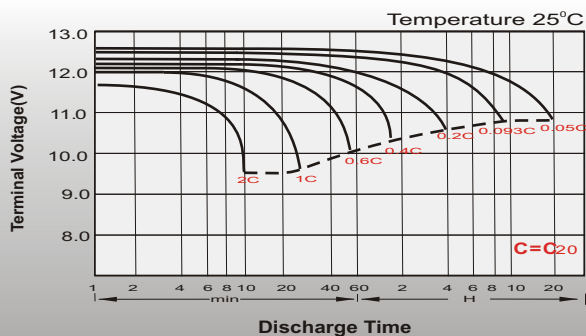
Dimensions

T3

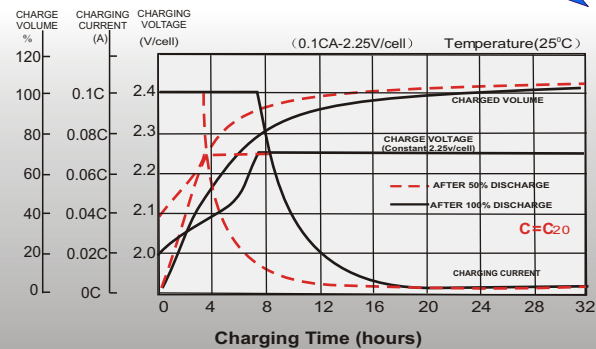
Unit: mm [inches]



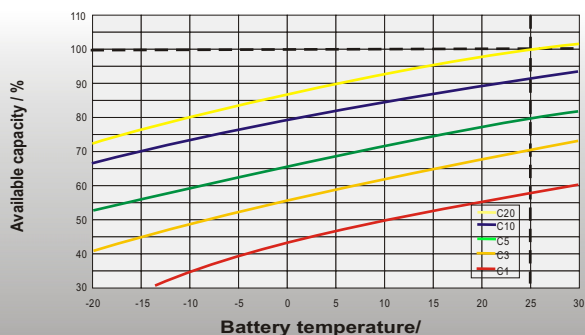
Discharge Characteristics



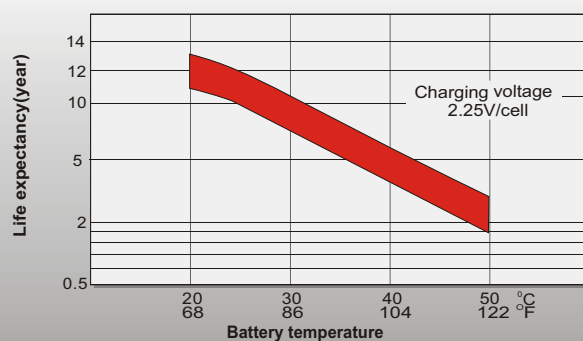
Float Charging Characteristics



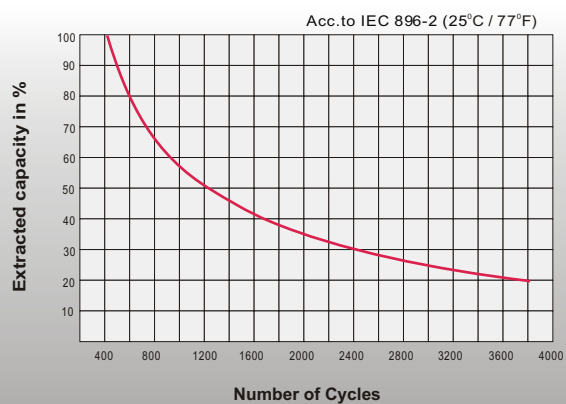
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

