PATTERN BATTERY TECHNOLOGY CO., LIMITED
DEEP CYCLE AGM BATTERY
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GEL Battery
PG12-100

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	100.0AH	
Dimension	Length	330±3mm (12.99 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±3mm (8.35 inches)
	Total Height (with Terminal)	218±3mm (8.58 inches)
Approx Weight	Approx 29.2 kg	
Terminal	T11	
Container Material	ABS	
Rated Capacity	101.6 AH/5.08A	(20hr,1.80V/cell,25°C/77°F)
	97.9 AH/9.79A	(10hr,1.75V/cell,25°C/77°F)
	76.0 A H/15.2A	(5hr,1.75V/cell,25°C/77°F)
	71.25 AH/23.75A	(3hr,1.75V/cell,25°C/77°F)
	56.05 AH/56.05A	(1hr,1.65V/cell,25°C/77°F)
Max. Discharge Current	900A (5s)	
Internal Resistance	Approx 5.9mΩ	
Operating Temp.Range	Discharge : -20～55℃ (-4 ～131℉)	
	Charge : 0～40℃ (32 ～104℉)	
	Storage : -20～50℃ (-4 ～122℉)	
Nominal Operating Temp. Range	25±3℃ (77 ±5℉)	
Cycle Use	Initial Charging Current less than 24.0A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/℃	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/℃	
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℃(77℉) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

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

Intertek
ISO14001 ISO9001 CE

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

20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	电压V/cell
90.25	72.20	55.10	44.65	28.50	21.85	18.05	14.25	12.35	10.45	9.03	4.88	1.85
107.35	84.55	59.85	50.35	30.40	22.80	19.00	14.73	13.30	11.78	9.50	5.08	1.80
115.90	88.35	63.65	52.25	31.35	23.75	19.95	15.20	13.78	12.35	9.79	5.29	1.75
121.60	92.15	67.45	54.15	32.30	24.70	20.71	16.15	14.25	13.78	10.17	5.49	1.70
128.25	95.00	70.30	56.05	34.20	25.65	21.38	17.10	14.73	14.25	10.55	5.69	1.65
133.00	99.75	73.15	57.95	36.10	26.60	22.33	18.05	15.68	15.20	10.93	5.90	1.60

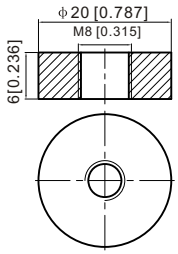
Constant Power Discharge (Watts/cell) at 25°C (77°F)

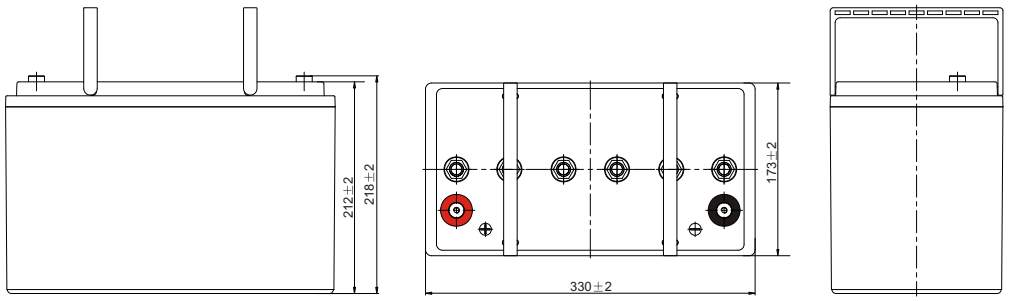
20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	电压V/cell
166.96	133.57	101.94	82.60	52.73	40.42	33.39	26.36	22.85	19.33	16.70	9.03	1.85
193.23	152.19	107.73	90.63	54.72	41.04	34.20	26.51	23.94	21.20	17.10	9.15	1.80
202.83	154.61	111.39	91.44	54.86	41.56	34.91	26.60	24.11	21.61	17.12	9.25	1.75
206.72	156.66	114.67	92.06	54.91	41.99	35.21	27.46	24.23	23.42	17.28	9.33	1.70
211.61	156.75	116.00	92.48	56.43	42.32	35.27	28.22	24.30	23.51	17.40	9.39	1.65
212.80	159.60	117.04	92.72	57.76	42.56	35.72	28.88	25.08	24.32	17.48	9.43	1.60

Dimensions

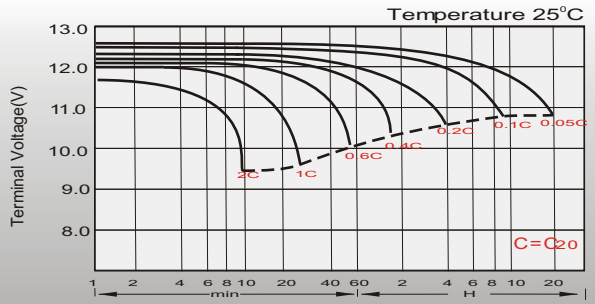
T11 Terminal

Unit: mm [inches]

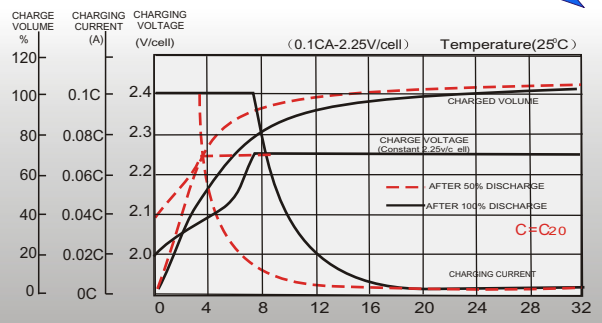




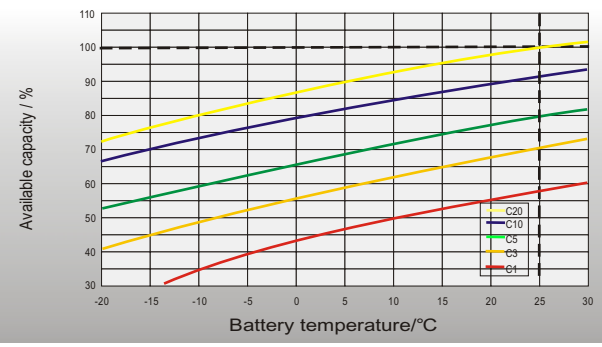
Discharge Characteristics



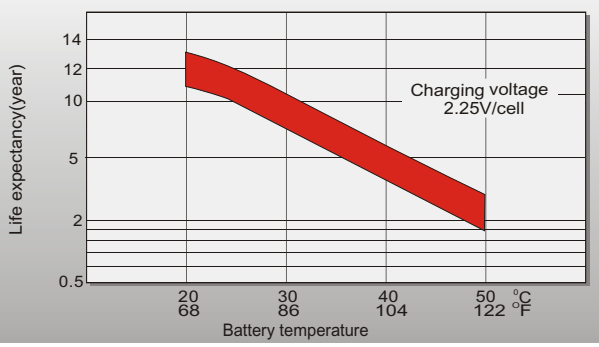
Float Charging Characteristics



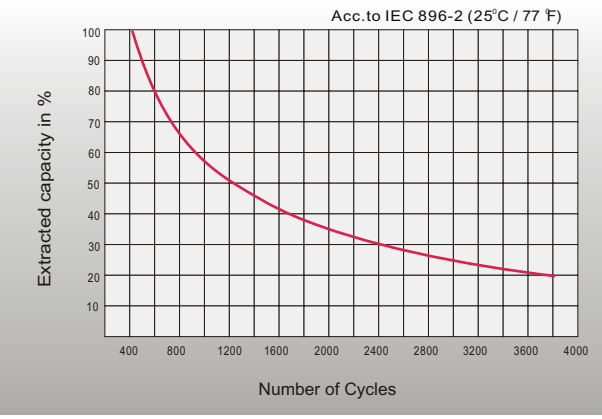
Temperature Effects in Relation to Battery Capacity



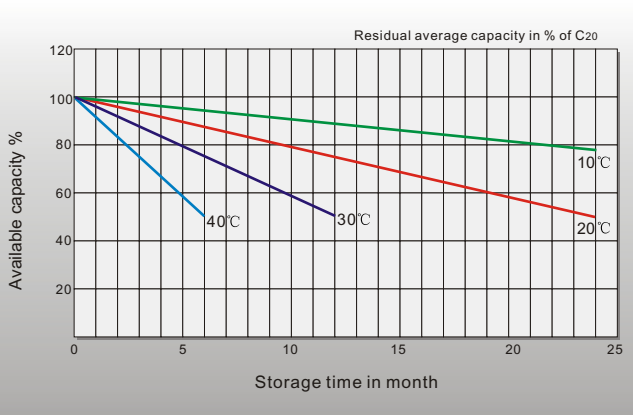
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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