



GP28-12A 12V28AH

GP SERIES-VRLA Battery



Specification

Nominal Voltage	12V		
Nominal Capacity(20HR)	28.0AH		
Dimension	Length	165±1mm (6.50 inches)	
	Width	175±1mm (6.89 inches)	
	Container Height	125±1mm (4.92 inches)	
	Total Height (with Terminal)	125±1mm (4.92 inches)	
Approx Weight	Approx 7.2 kg (14.724 lbs)		
Terminal	T3/T12		
Container Material	ABS		
Rated Capacity	28.0 AH/1.40A	(20hr , 1.80V/cell, 25°C/77°F)	
	24.8 AH/2.48A	(10hr, 1.80V/cell, 25°C/77°F)	
	22.5 AH/4.50A	(5hr, 1.75V/cell, 25°C/77°F)	
	20.2 AH/6.73A	(3hr, 1.75V/cell, 25°C/77°F)	
	16.5 AH/16.5A	(1hr, 1.60V/cell, 25°C/77°F)	
Max. Discharge Current	405A (5s)		
Internal Resistance	Approx 14mΩ		
Operating Temp.Range	Discharge : -15~50°C (5~122°F)		
	Charge : 0~40°C (32~104°F)		
	Storage : -15~40°C (5~104°F)		
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Cycle Use	Initial Charging Current less than 8.4 A.		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	JYC GP series batterys may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		

Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controlsystem

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	UL	Battery

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	49.5	38.0	31.5	27.2	21.1	15.5	13.1	7.73	6.05	4.92	4.01	3.48	2.81	2.35	1.29
1.80V/cell	66.5	48.6	38.1	32.2	24.8	18.0	14.6	8.44	6.51	5.25	4.31	3.73	2.98	2.42	1.30
1.75V/cell	74.9	53.4	41.6	34.6	25.8	18.7	15.3	8.75	6.63	5.37	4.42	3.84	3.03	2.48	1.31
1.70V/cell	82.5	58.2	44.4	36.4	26.8	19.5	15.8	8.97	6.81	5.51	4.53	3.92	3.07	2.53	1.34
1.65V/cell	91.0	62.8	47.2	38.7	28.3	20.0	16.2	9.10	7.11	5.70	4.66	4.00	3.12	2.58	1.35
1.60V/cell	100.4	68.2	50.5	41.2	29.9	20.8	16.3	9.49	7.32	5.88	4.81	4.09	3.15	2.61	1.36

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	90.5	70.2	58.8	51.3	40.1	29.8	25.2	15.0	11.8	9.62	7.87	6.84	5.54	4.64	2.55
1.80V/cell	120.2	88.7	70.1	59.8	46.6	34.4	28.1	16.3	12.6	10.2	8.40	7.31	5.86	4.78	2.57
1.75V/cell	132.7	95.9	75.6	63.7	48.0	35.4	29.3	16.8	12.8	10.4	8.60	7.49	5.95	4.90	2.59
1.70V/cell	142.0	102.1	79.6	66.4	49.7	36.6	30.1	17.2	13.1	10.7	8.80	7.63	6.03	4.99	2.64
1.65V/cell	154.4	109.2	84.0	70.1	52.0	37.2	30.6	17.4	13.6	11.0	9.01	7.77	6.11	5.09	2.67
1.60V/cell	166.4	115.9	88.3	73.8	54.5	38.6	30.7	18.0	14.0	11.3	9.27	7.92	6.15	5.14	2.68

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



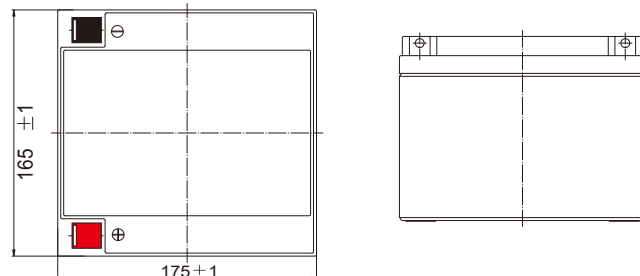
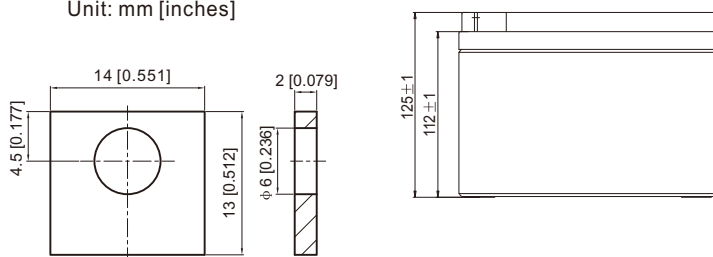
GP28-12A 12V28AH

GP SERIES-VRLA Battery

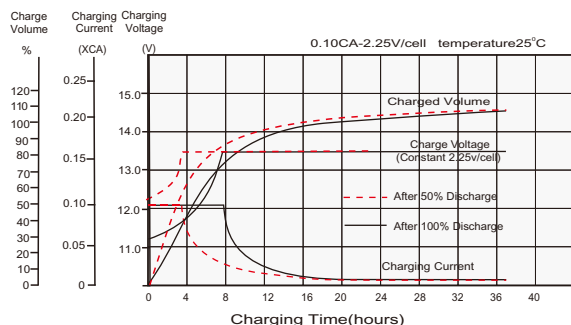
Dimensions

T3 Terminal

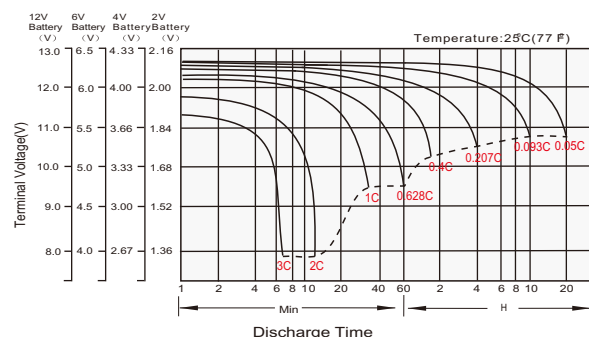
Unit: mm [inches]



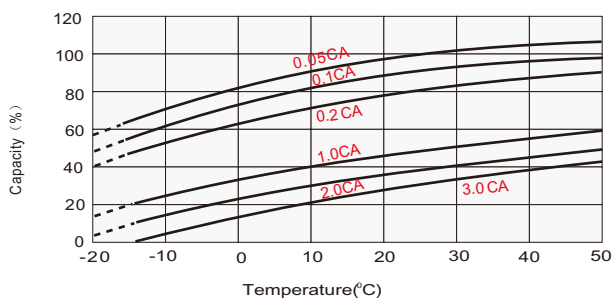
Float Charging Characteristics



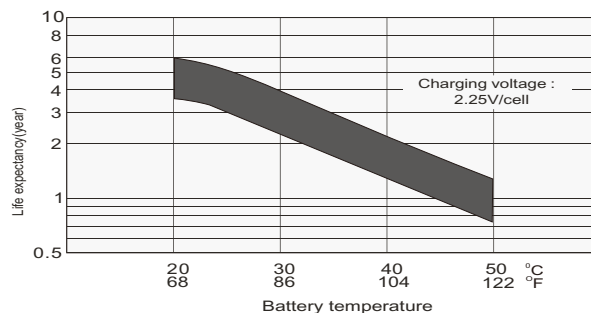
Discharge Characteristics



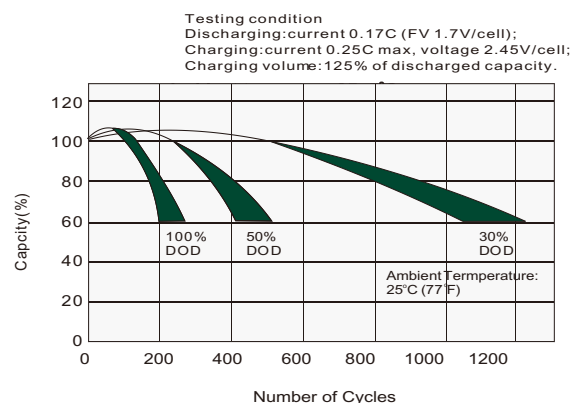
Temperature Effects in Relation to Battery Capacity



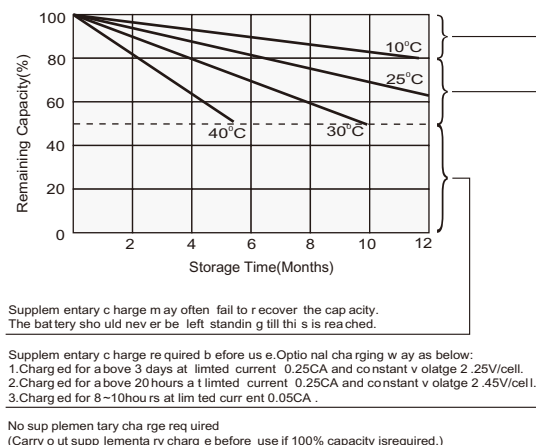
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



JYC GP BATTERIES

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/ specification are subject to modification without notice. Contact JYC for the latest information.