



GED250-12 12V250AH

GED SERIES-Deep Cycle GEL Battery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	250.0AH	
Dimension	Length	520±3mm (20.55 inches)
	Width	268±2mm (10.5 inches)
	Container Height	220±2mm (8.58 inches)
	Total Height (with Terminal)	225±2mm (8.83 inches)
Approx Weight	Approx 66.0 Kg (145.51 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	258.8AH/12.9A	(20hr, 1.80V/cell, 25°C/77°F)
	250.0 AH/25.0A	(10hr, 1.80V/cell, 25°C/77°F)
	218.7 AH/43.7A	(5hr, 1.75V/cell, 25°C/77°F)
	198.7 AH/66.2A	(3hr, 1.75V/cell, 25°C/77°F)
	161.5 AH/161.5A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 2.0mΩ	
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 75.0A.	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 GED series battery 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

- ◆ Solar energy
- ◆ UPS
- ◆ Telecommunication
- ◆ Golf trolleys and golf cart Portable apparatus, lights and instruments; Electric toys
- ◆ Illumination light
- ◆ Fire alarms
- ◆ Portable power
- ◆ Wheelchairs
- ◆ Medical equipments.

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	UL	BV Battery

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V	656.8	437.5	351.8	234.5	168.3	165.0	93.0	68.0	45.0	28.0	25.00	13.88
1.75V	696.2	463.8	369.3	241.5	173.3	170.0	95.3	69.7	45.7	28.3	25.25	14.01
1.70V	788.1	525.0	386.9	248.6	178.3	174.9	97.7	71.4	46.4	28.6	25.50	14.15
1.65V	775.0	516.3	404.5	255.6	183.4	179.9	99.5	72.8	47.0	28.8	25.75	14.29
1.60V	840.6	560.0	422.1	262.6	188.4	184.8	101.4	74.1	47.7	29.1	26.00	14.43

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V	1224.8	815.9	656.0	437.3	313.8	307.7	173.4	126.8	83.9	52.2	46.6	25.9
1.75V	1298.3	864.9	688.8	450.5	323.2	317.0	177.8	130.0	85.2	52.7	47.1	26.1
1.70V	1469.8	979.1	721.6	463.6	332.6	326.2	182.1	133.2	86.4	53.3	47.6	26.4
1.65V	1445.3	962.8	754.4	476.7	342.0	335.4	185.6	135.7	87.7	53.8	48.0	26.7
1.60V	1567.8	1044.4	787.2	489.8	351.4	344.7	189.1	138.2	89.0	54.3	48.5	26.9

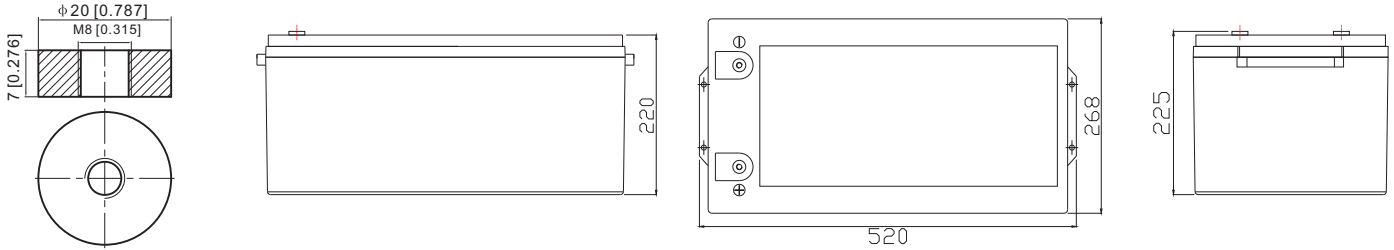
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



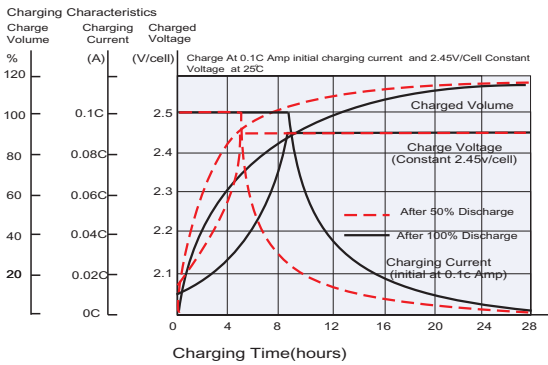
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Dimensions

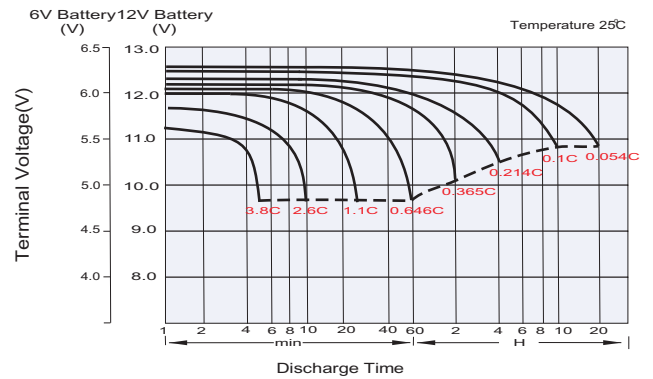
T11 Terminal Unit: mm [inches]



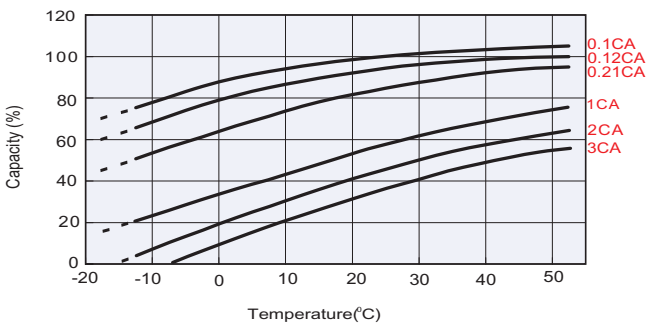
Charging Characteristics (cycle use)



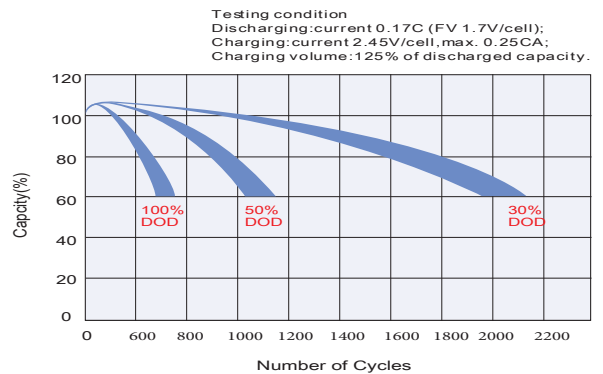
Discharge Characteristics



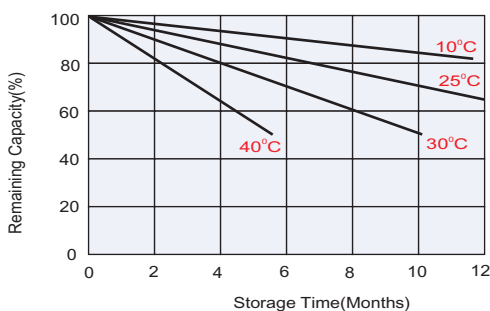
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8~10 hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

JYC GED 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.