

DC GE100-12 12V100AH

DC GEL Battery



Applications

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

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	UL	UL

Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	100.0AH	
Dimension	Length	330±3mm (12.99 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±2mm (8.35 inches)
	Total Height (with Terminal)	220±2mm (8.66 inches)
Approx Weight	Approx 28.6 Kg (63.05 lbs)	
Terminal	T4	
Container Material	ABS	
Rated Capacity	105.0 AH/5.25A	(20hr, 1.80V/cell, 25°C/77°F)
	100.0 AH/10.0A	(10hr, 1.80V/cell, 25°C/77°F)
	87.2 AH/17.4A	(5hr, 1.75V/cell, 25°C/77°F)
	79.4 AH/26.5A	(3hr, 1.75V/cell, 25°C/77°F)
	61.1 AH/61.1A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 4.8mΩ	
Operating Temp. Range	Discharge : -40 ~ 50°C	
	Charge : -25 ~ 50°C	
	Storage : -40 ~ 50°C	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 25.0 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 GE series batteries 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.	

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

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.80V/cell	229.71	172.18	112.97	58.03	26.51	18.23	10.02	5.41
1.75V/cell	238.01	175.66	115.16	60.32	27.42	18.64	10.20	5.48
1.70V/cell	252.46	182.61	116.80	60.56	27.69	18.94	10.41	5.62
1.65V/cell	257.55	187.24	117.90	60.86	28.10	19.29	10.66	5.81
1.60V/cell	267.72	193.03	120.64	61.28	28.79	19.95	11.11	6.03

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

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.80V/cell	416.00	318.20	209.67	108.11	49.71	34.59	19.69	10.66
1.75V/cell	434.60	327.61	216.39	113.53	51.82	35.68	20.19	10.90
1.70V/cell	466.56	343.49	221.35	115.61	53.09	36.71	20.87	11.27
1.65V/cell	479.31	356.32	225.90	111.20	54.41	37.74	21.64	11.84
1.60V/cell	501.99	369.66	233.09	119.39	56.20	39.30	22.80	12.45

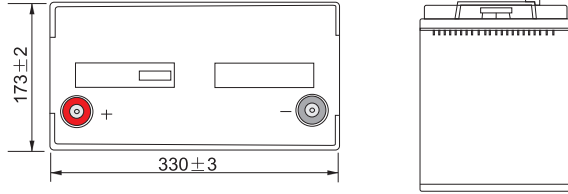
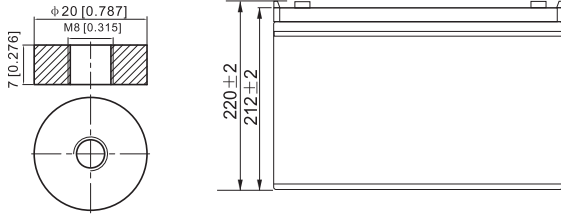
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

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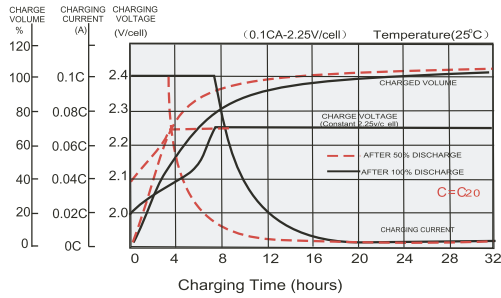
DC GEL Battery

Dimensions

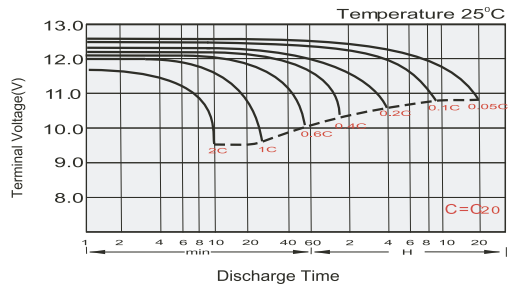
T11 Terminal Unit: mm [inches]



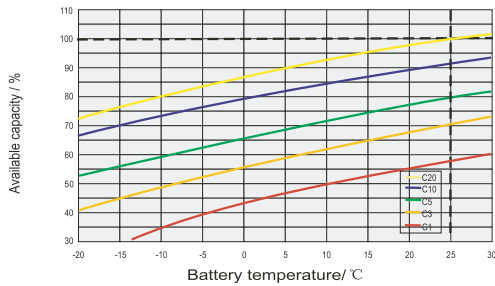
Float Charging Characteristics



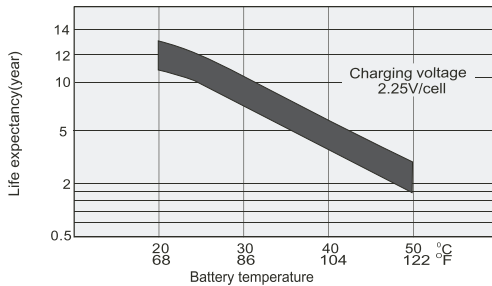
Discharge Characteristics



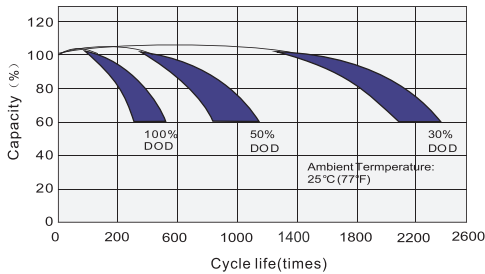
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

