

FT GEL100-12 12V100AH

FT GEL SERIES-Front Terminal VRLA Battery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	100AH	
Dimension	Length	507 ± 3mm (19.96 inches)
	Width	110 ± 2mm (4.33 inches)
	Container Height	222 ± 2mm (8.74 inches)
	Total Height (with Terminal)	233 ± 2mm (9.17 inches)
Approx Weight	Approx 30 Kg (66.2 lbs)	
Terminal	T13	
Container Material	ABS	
Rated Capacity	105.2 AH/5.26A	(20hr, 1.80V/cell, 25°C/77°F)
	100.0 AH/10.0A	(10hr, 1.80V/cell, 25°C/77°F)
	90.3 AH/11.3A	(8hr, 1.80V/cell, 25°C/77°F)
	84.1 AH/16.8A	(5hr, 1.75V/cell, 25°C/77°F)
	60.8 AH/60.8A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 4.3 mΩ	
Operating Temp.Range	Discharge: -20~60°C (-4 ~ 140°F)	
	Charge: -10 ~ 50°C (14~122°F)	
	Storage : -20~ 60°C (-4 ~ 140°F)	
Nominal Operating Temp. Range	25±3°C (77 ±5°F)	
Cycle Use	Initial Charging Current less than 30 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	FT series UD batteries 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

- ◆ For standard 19 inches or 23 inches power cabinets
- ◆ Network connection equipment of communication system
- ◆ Power system of special network or local area network
- ◆ UPS, standby power supply
- ◆ Power station systems
- ◆ Railway and marine systems

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

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	173.9	145.0	124.4	97.6	75.7	61.5	36.7	26.4	21.2	17.6	15.3	11.90	9.92	5.26
1.80V/cell	197.2	161.6	137.7	106.8	81.4	65.7	38.7	28.1	22.3	18.5	16.1	12.50	10.38	5.50
1.75V/cell	216.4	174.9	146.9	112.2	84.5	68.0	39.4	28.6	22.9	18.9	16.3	12.70	10.49	5.58
1.70V/cell	231.5	184.2	152.9	115.5	86.5	68.9	40.0	28.8	23.0	19.0	16.5	12.80	10.56	5.62
1.67V/cell	239.5	188.8	156.0	117.0	86.8	69.2	40.1	28.9	23.1	19.1	16.6	12.90	10.65	5.65
1.60V/cell	251.8	196.0	163.0	119.9	89.1	71.0	40.8	29.3	23.4	19.3	16.7	12.98	10.80	5.68

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	324.8	273.4	237.0	187.9	147.0	119.9	72.0	52.0	41.9	34.8	30.3	23.7	19.8	10.52
1.80V/cell	363.9	300.7	258.5	202.5	156.9	127.3	75.4	55.0	43.8	36.4	31.7	24.9	20.7	10.98
1.75V/cell	393.0	321.4	273.3	211.1	161.4	131.2	76.6	55.7	44.8	37.1	32.1	25.2	20.9	11.14
1.70V/cell	411.0	333.9	282.2	216.1	164.5	132.5	77.5	56.2	45.0	37.2	32.5	25.4	21.0	11.21
1.67V/cell	423.6	340.8	286.8	218.4	164.5	132.8	77.6	56.1	45.1	37.3	32.6	25.5	21.2	11.25
1.60V/cell	433.0	346.9	295.4	221.0	167.0	134.9	78.2	56.5	45.4	37.6	32.7	25.6	21.4	11.30

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