TAICO

FMG SERIES- Front Terminal GEL

FMG12-100L (12V100AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	100.0AH	
Dimension	Length	560±3mm (22.04 inches)
	Width	110±2mm (4.33 inches)
	Container Height	233±3mm (9.17 inches)
	Total Height (with Terminal)	233±3mm (9.17 inches)
Approx Weight	Approx 35.6 kg (78.5lbs)	
Terminal	T13	
Container Material	ABS	
Rated Capacity	100.0 AH/5.0A	(20hr ,1.80V/cell,25°C/77°F)
	95.0 AH/9.5A	(10hr,1.80V/cell,25°C/77°F)
	82.7 AH/16.54A	(5hr,1.75V/cell,25°C/77°F)
	74.4 AH/24.8A	(3hr,1.75V/cell,25°C/77°F)
	54.5 AH/54.5A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 5.5mΩ	
Operating Temp.Range	Discharge : -20～55°C (-4～131°F)	
	Charge : 0～40°C (32～104°F)	
	Storage : -20～50°C (-4～122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 20A.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	TAICO FMG 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.	

Applications

- *Telecom application(19 inches or 23 inches power cabinets)*
- *UPS，Standby power supply*
- *Systems Solar Power*
- *Network connection equipment of communication system*
- *Power station systems*
- *Railway and marine systems*
- *Cable TV*

VdS Intertek ETL SEMKO CE ISO14001 ISO9001 EMC tested

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

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	79.0	62.0	47.3	39.6	27.8	21.2	17.6	15.2	13.0	11.5	10.4	9.52	9.09	4.80
1.80V/cell	90.5	69.3	52.2	43.7	30.1	22.7	18.6	15.9	13.7	12.1	10.9	10.0	9.50	5.00
1.75V/cell	101.7	76.2	56.4	46.8	31.9	24.0	19.5	16.54	14.2	12.5	11.3	10.3	9.69	5.10
1.70V/cell	109.5	81.6	59.9	49.5	33.8	25.0	20.1	17.1	14.7	12.9	11.6	10.6	9.92	5.17
1.67V/cell	114.0	84.8	62.0	51.4	34.7	25.8	20.6	17.4	14.9	13.1	11.8	10.7	10.0	5.22
1.60V/cell	123.5	90.8	66.6	54.5	36.1	26.8	21.4	18.0	15.3	13.4	12.0	10.9	10.2	5.29

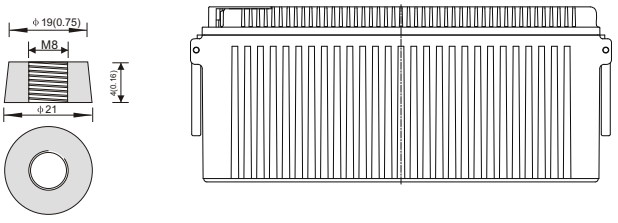
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

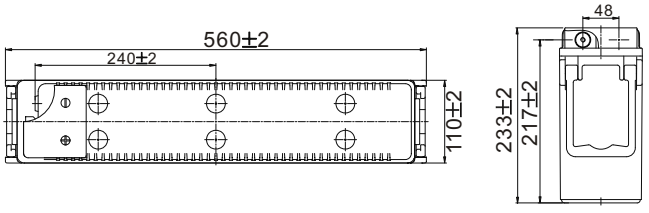
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	151.2	119.5	91.7	77.1	54.4	41.5	34.5	29.9	25.8	22.9	20.7	19.0	18.1	9.58
1.80V/cell	170.9	132.3	100.2	84.6	58.5	44.3	36.5	31.3	27.0	23.9	21.7	19.9	18.9	9.97
1.75V/cell	189.9	143.9	107.4	90.1	61.9	46.7	38.1	32.4	27.9	24.7	22.3	20.5	19.3	10.2
1.70V/cell	202.4	153.0	113.6	95.0	65.3	48.5	39.2	33.3	28.8	25.5	22.9	21.0	19.7	10.3
1.67V/cell	208.3	156.8	116.6	97.8	66.6	49.9	40.1	33.9	29.2	25.8	23.2	21.2	19.9	10.4
1.60V/cell	223.2	166.8	124.6	103.3	69.0	51.6	41.4	34.8	29.8	26.3	23.6	21.6	20.3	10.5

Dimensions

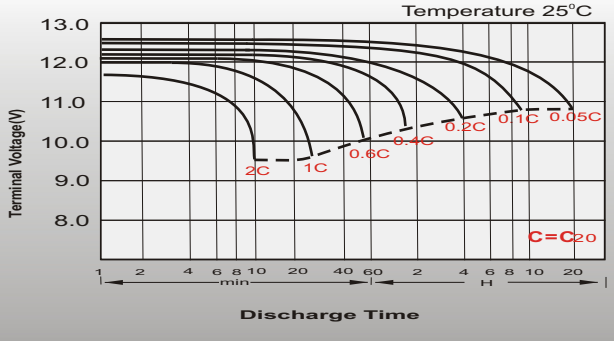
T11 Terminal

Unit: mm [inches]

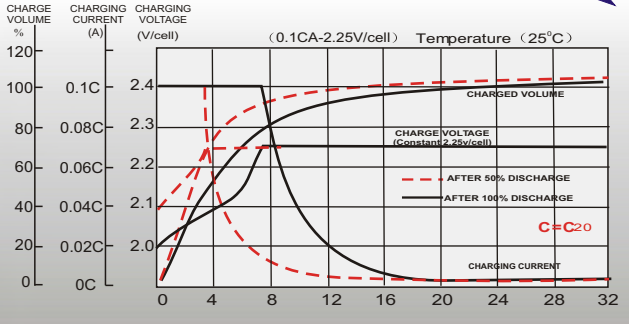




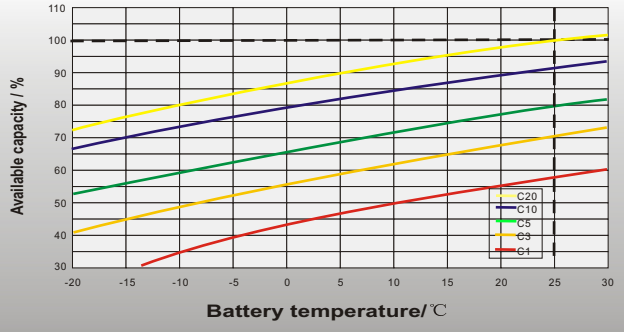
Discharge Characteristics



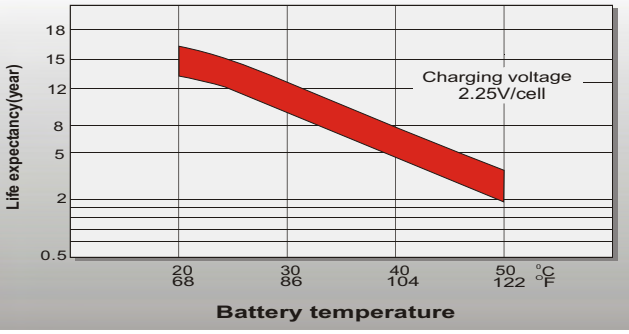
Float Charging Characteristics



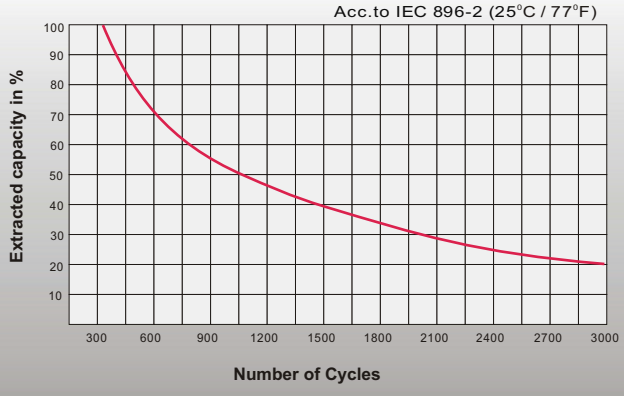
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time