

UP-AGM SERIES

UP-TF150-12GPS



ISO 9001



ISO 14001



OHSAS 18001



MH 28539



G4M20206-0910-E-16

TELECOMMUNICATIONS AGM



Built-in GPS module

FEATURES

- Advanced Battery + GPS remote tracking technology
- Built-in GPS integrated detection module and maintenance-free
- Excellent GPS accuracy and reliable performance
- ...

OVERVIEW

UP-TFGPS series is Front Terminal Hybrid GEL technology battery combines accuracy and reliability built-in GPS detection module. It provides superior high integrity and trackable. The UP-TFGPS series battery offers 30% more cyclic life than the general type. It is suitable for telecom 19" and 23" cabinet installation, solar and wind energy storage, etc.

SPECIFICATION

Cells Per Unit	6	
Voltage Per Unit	12	
Capacity	150 Ah@10hr-rate to 1.80 V per cell @25°C	
Weight	Approx. 43.5 Kg (Tolerance ± 1.5%)	
Internal Resistance	Approx. 4.0 mΩ	
Terminal	F9 (M8)	
Maximum Discharge Current	1500 A (5 sec)	
Design Life	15 years (floating charge)	
Maximum Charging Current	45 A	
Reference Capacity	C3	115.2 Ah
	C5	130.0 Ah
	C10	150.0 Ah
	C20	158.6 Ah
Float Charging Voltage	13.6 V~13.8 V @ 25°C	Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25°C	Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge:	-20°C~60°C
	Charge:	0°C~50°C
	Storage:	-20°C~60°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional	

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DIMENSIONS

Length	565±2mm (22.2 inches)
Width	110±2mm (4.33 inches)
Height	288±2mm (11.3 inches)
Total Height	288±2mm (11.3 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A AT 25°C)

F.V/Time	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60	262.0	166.7	97.8	57.5	40.6	32.6	27.3	18.6	16.0	8.20
1.65	255.1	163.0	96.0	56.7	40.1	32.2	27.0	18.4	15.8	8.13
1.70	246.1	158.2	95.4	55.6	39.3	31.7	26.6	18.2	15.6	8.05
1.75	234.3	151.9	93.8	54.1	38.4	31.0	26.0	17.8	15.4	7.93
1.80	219.2	143.7	90.5	52.1	37.1	30.0	25.3	17.4	15.0	7.78
1.85	200.1	133.2	81.0	49.6	35.5	28.8	24.3	16.8	14.5	7.57

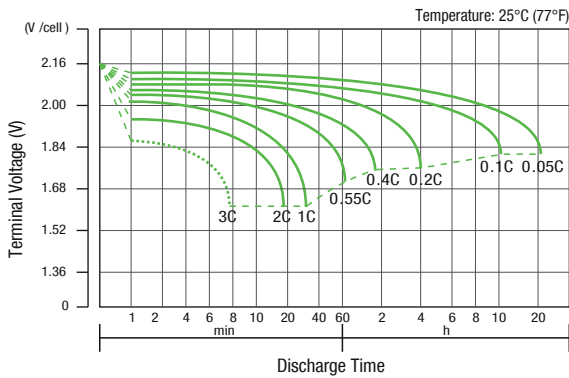
CONSTANT POWER DISCHARGE CHARACTERISTICS (WPC AT 25°C)

F.V/Time	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60	464.9	307.3	185.7	110.6	78.7	63.6	53.4	36.9	31.9	16.4
1.65	462.2	305.1	184.2	109.8	78.1	63.2	53.1	36.6	31.6	16.3
1.70	449.7	297.7	183.5	108.0	76.9	62.2	52.3	36.2	31.2	16.1
1.75	434.5	288.7	181.5	105.6	75.4	61.1	51.4	35.6	30.7	15.9
1.80	412.2	275.9	175.8	102.3	73.2	59.4	50.1	34.8	30.1	15.6
1.85	381.7	258.3	158.6	97.9	70.3	57.2	48.4	33.7	29.2	15.2

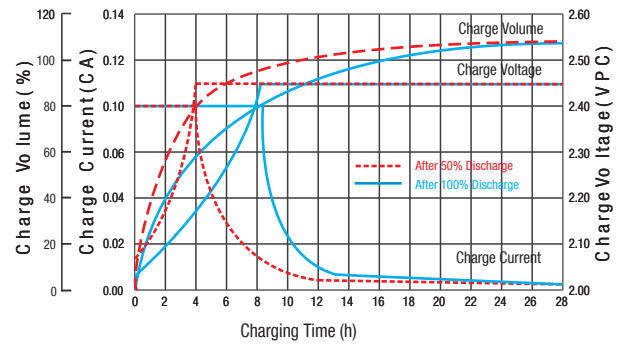
Note: The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact with Master Battery for the latest information.



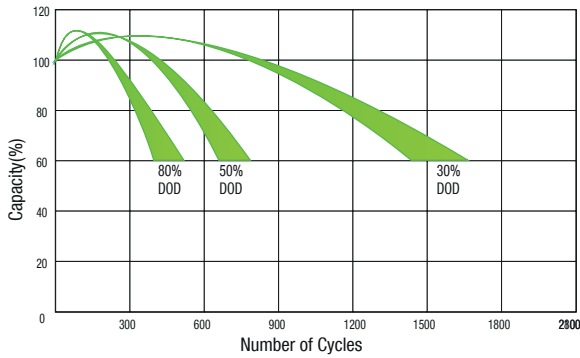
Discharge Characteristics Curve



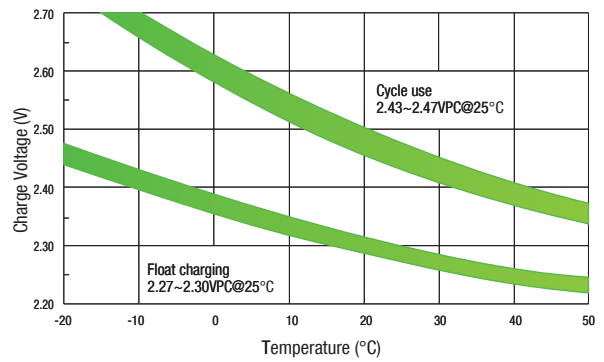
Charge Characteristic Curve for Cycle Use (IU)



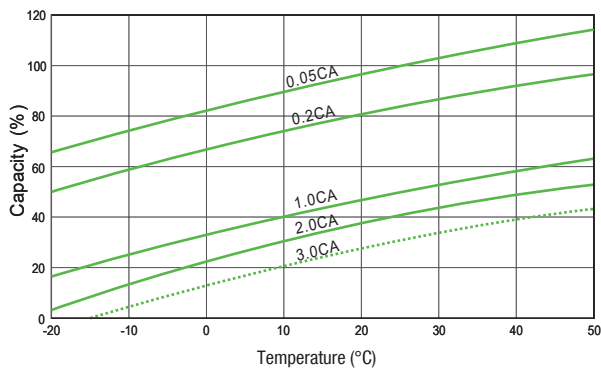
Cycle Life in Relation to Depth of Discharge



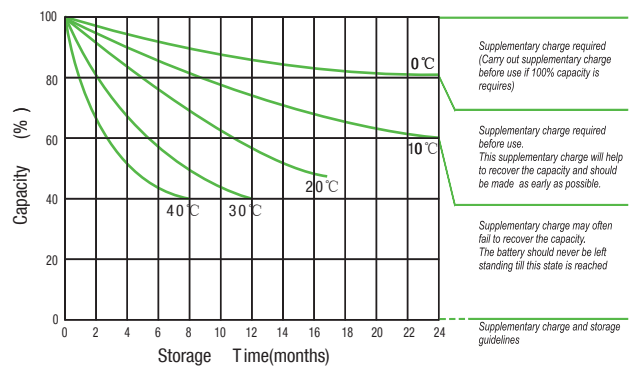
Relationship Between Charging Voltage and Temperature



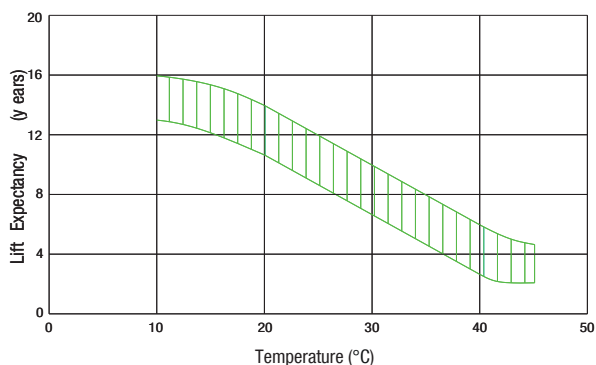
Temperature Effects on Capacity



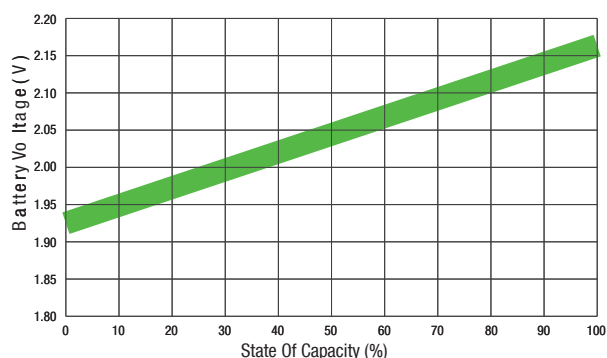
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge (20°C)



Note: All above information shall be changed without prior notice, Master Battery reserves the right to explain and update the latest information.

