

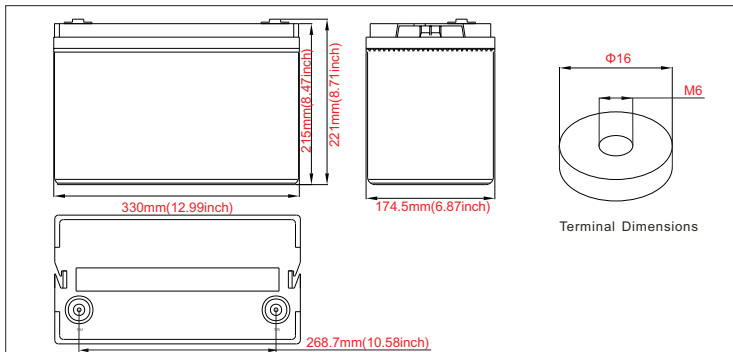
Model: 6-FM-100A

GP SERIES

General Features

GP(General purpose) series VRLA batteries is designed for a wide range of applications in UPS, Cable Television, Emergency Power System etc. With latest AGM technology, the GP range of batteries features one-way valves and ensures reliability in performance. The design float life is 10 years.

Dimensions



General Characteristics

Nominal Voltage	12V
Rated Capacity	100Ah - 10A for 10h to 1.80V/cell @25°C(77°F)
Weight	32.0kg
Internal Resistance	Approx 4.2mΩ
Operating Temperature Range	Discharge: -40°C~50°C(-40°F~122°F)
	Charge: -20°C~50°C(-4°F~122°F)
	Storage: -20°C~40°C(-4°F~104°F)
Recommended temperature	15°C~25°C(59°F~77°F)
Float Voltage	13.6V-13.8V@25°C(77°F)
Recommended Maximum Charging Current	25A
Equalize and Cycle Service	14.4V-14.7V@25°C(77°F)
Self Discharge	The residual capacity is above 87% after 90 days storage(25°C/77°F)
Terminal	M6 Female
Container Material	ABS

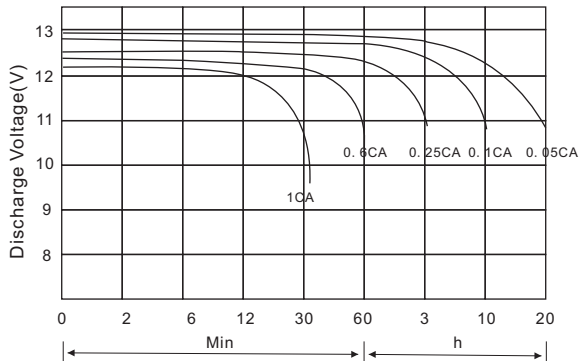
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

End voltage per cell	10min	15min	30min	1h	3h	5h	10h
1.60V	209	179	108	69.0	29.4	18.4	10.4
1.65V	202	177	107	67.9	29.1	18.3	10.3
1.70V	195	174	106	66.9	28.8	18.2	10.2
1.75V	189	171	105	65.9	28.5	18.1	10.1
1.80V	182	166	102	64.8	28.1	18.0	10.0

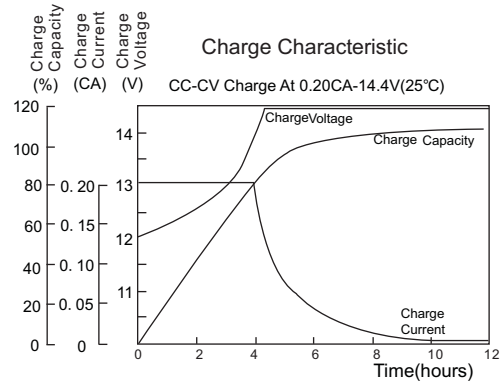
Constant Power Discharge Characteristics Unit: Watts/cell (25°C, 77°F)

End voltage per cell	10min	15min	30min	45min	1h	3h	5h
1.60V	345	325	210	155	121	56.0	34.8
1.65V	339	320	208	154	120	55.7	34.7
1.70V	333	314	206	153	119	54.9	34.5
1.75V	329	307	204	152	118	54.6	34.3
1.80V	323	300	200	150	117	53.8	34.1

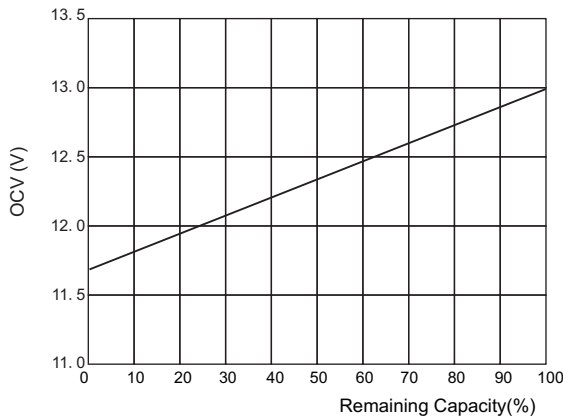
Terminal Voltage(V) vs. Discharge Time (25°C, 77°F)



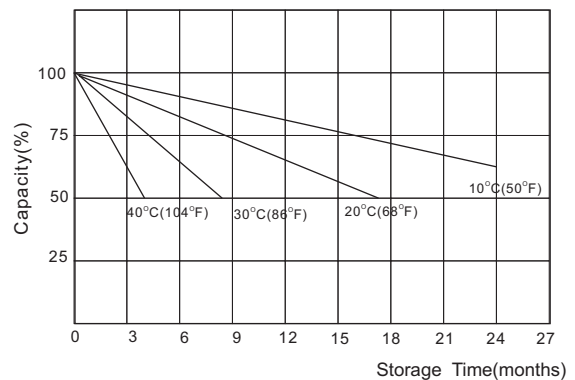
Battery Voltage vs Charge Time



Relationship of OCV vs. State of Charge



Capacity Retention Characteristic



Charging Procedures

Application	Charge Voltage			Max. Charge Current
	Temp.	Set Range (V/block)	Temperature Compensation Coefficient (mV/°C/cell)	
Cycle	25°C	14.4 - 14.7	-5	0.25C
Standby	25°C	13.6 - 13.8	-3	

Discharge Current vs. Discharge Voltage

Final Discharge Voltage V/Cell	1.85	1.80	1.70	1.60
Discharge Current (A)	0.02C ≥ (A)	0.02C < (A) < 0.2C	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C

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