

## EURO PLUS - EMF 9

### 12V-9AH - AGM MONOBLOCK VRLA BATTERY

**Applications:**

- UPS
- Data Centers
- Emergency Lighting
- Security Systems
- Medical Instruments

**Features:**

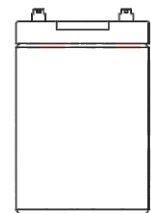
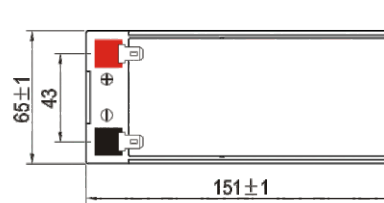
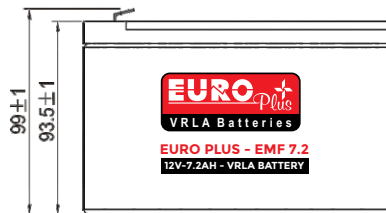
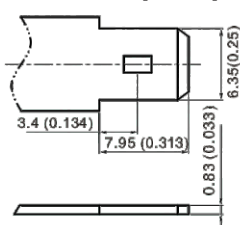
- Suitable for High Rate Discharge
- Self Regulating pressure valve
- Flame retardant ABS/PP case
- Product Performance Complies with JIS 8702 C
- Design life 8 Years

Cells Per Unit	6
Voltage Per Unit	12
Capacity	9Ah @C <sub>20</sub> upto 1.75ECV @27°C
Weight	2.65 Kgs
Maximum Discharge Current(1 min 1.60 ECV)	27AMP
Operating Temperature Range	-5°C~+40°C
Nominal Operating Temperature	27°C
Float Charging Voltage	13.5 to 13.8 V
Recommended Maximum Charging Current Limit	2.25AMP
Equalization and Cycle Service	14.2 to 14.8 V
Self Discharge	Batteries can be stored for more than 6 months @ 27°C Please charge batteries before using. For higher temperatures the time interval will be shorter
Construction	Plate Type: Flat Pasted Separator: AGM Electrolyte: Immobilised H <sub>2</sub> SO <sub>4</sub>
Terminal	F2
Container & Cover Material	ABS

Dimensions :	Length ± 5 mm	Width ± 5 mm	Height ± 5 mm
Battery	151	65	94

**F2 Terminal**

Unit: mm [inches]



### Constant Current Discharge Characteristics : Amps (27°C)

FV	5mins	10mins	15mins	20mins	30mins	45mins	1hr	2hr	3hr	4hr	5hr	10hr	20hr
10.8 V	25.60	18.00	12.10	12.11	8.10	6.36	5.00	3.17	2.20	1.72	1.50	0.82	0.44
10.5 V	28.80	18.50	13.20	12.78	8.25	6.61	5.20	3.25	2.25	1.76	1.53	0.84	0.45
10.2 V	31.28	19.00	14.00	13.66	8.75	6.92	5.40	3.31	2.30	1.79	1.57	0.86	0.46
9.6 V	32.02	19.50	15.10	13.98	9.10	7.24	5.50	3.30	2.31	1.80	1.58	0.86	0.46

### Constant Current Discharge Characteristics : Watts (27°C)

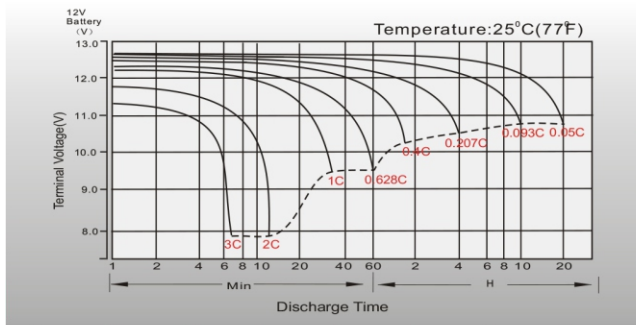
FV	5mins	10mins	15mins	20mins	30mins	45mins	1hr	2hr	3hr	4hr	5hr	10hr	20hr
10.8 V	277.0	205.0	161.1	136.6	96.5	72.5	60.8	36.8	25.7	20.3	17.8	9.8	5.3
10.5 V	306.0	219.2	174.9	144.1	100.1	75.4	62.1	37.6	26.2	20.7	18.2	10.0	5.4
10.2 V	328.0	234.3	184.0	154.1	105.5	78.9	62.9	38.3	26.7	21.1	18.7	10.2	5.5
9.6 V	384.0	239.8	191.4	157.7	109.2	82.5	62.8	38.2	26.9	21.2	18.8	10.3	5.5

# EURO PLUS - EMF 9

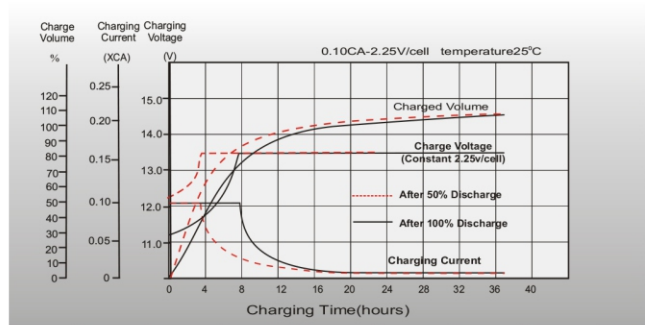
## 12V-9AH - AGM MONOBLOCK VRLA BATTERY

### PERFORMANCE CHARACTERISTICS

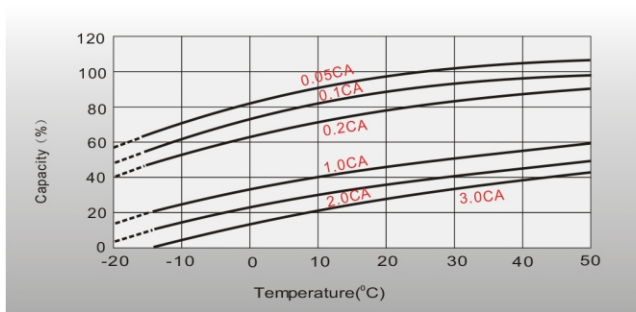
#### DISCHARGE CHARACTERISTICS



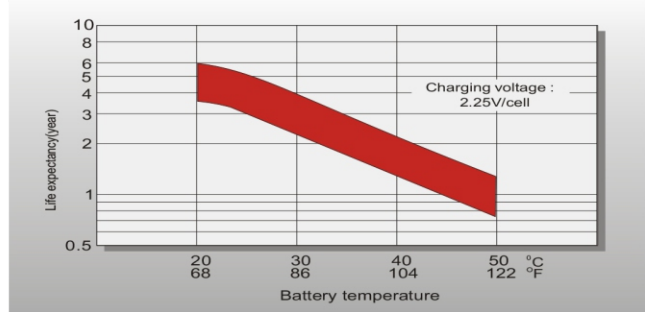
#### FLOAT CHARGING CHARACTERISTICS



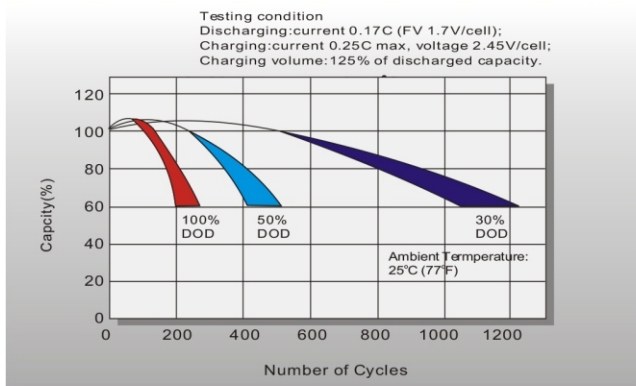
#### TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



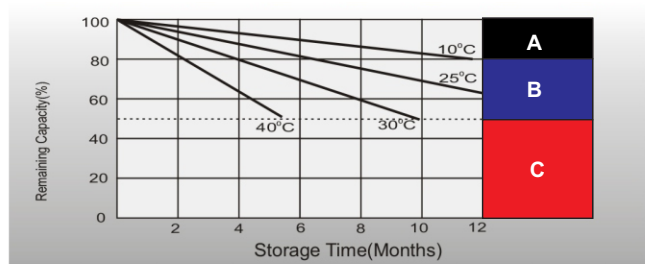
#### TEMPERATURE EFFECTS ON LONG TERM FLOAT LIFE



#### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



#### SELF DISCHARGE CHARACTERISTICS



- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.