

EURO PLUS - EMF 12

12V-12AH - AGM MONOBLOCK VRLA BATTERY

Applications:

- UPS
- Data Centers
- Emergency Lighting
- Security SystemsMedical Instruments

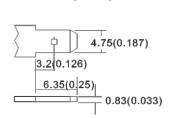
Features:

- 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

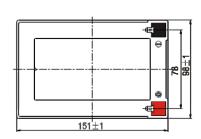
Medical Instruments	Design life 8 Years						
Cells Per Unit	6						
Voltage Per Unit	12						
Capacity	12Ah@C ₂₀ upto 1 75ECV @27°C						
Weight	3.50 Kgs						
Maximum Discharge Current(1 min 1.60 ECV)	36AMP						
Operating Temperature Range	-5°C~+40°C						
Nominal Operating Temperature	27°C						
Float Charging Voltage	13.5 to 13.8 V						
Recommended Maximum Charging Current Limit	3AMP						
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						
	Seperator: AGM						
	Electrolyte: Immobilised H ₂ So ₄						
Terminal	F2						
Container & Cover Material	ABS						

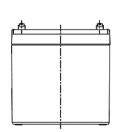
Length ± 5 mm Width ± 5 mm Height ± 5 mm Dimensions : Battery

■ F2 Terminal Unit: mm [inches]









Constant Current Discharge Characteristics: Amps (27°C)															
FV	5mins	10mins	15mins	20mins	30mins	45mins	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	22.9	17.5	14.5	12.6	9.72	7.16	6.03	3.57	2.79	2.27	1.85	1.61	1.30	1.08	0.594
1.80V/cell	30.7	22.4	17.6	14.9	11.5	8.33	6.76	3.90	3.00	2.42	1.99	1.72	1.37	1.12	0.600
1.75V/cell	34.6	24.6	19.2	16.0	11.9	8.64	7.07	4.04	3.06	2.48	2.04	1.77	1.40	1.15	0.606
1.70V/cell	38.1	26.9	20.5	16.8	12.4	8.99	7.29	4.14	3.15	2.54	2.09	1.81	1.42	1.17	0.617
1.65V/cell	42.0	29.0	21.8	17.8	13.1	9.21	7.46	4.20	3.28	2.63	2.15	1.85	1.44	1.19	0.625
1.60V/cell	46.3	31.5	23.3	19.0	13.8	9.60	7.54	4.38	3.38	2.71	2.22	1.89	1.45	1.21	0.629

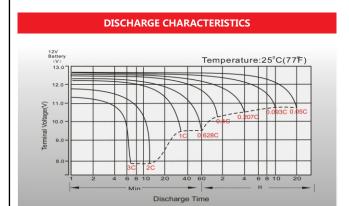
Constant Current Discharge Characteristics: Watts (27°C)															
FV	5mins	10mins	15mins	20mins	30mins	45mins	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	41.8	32.4	27.1	23.7	18.5	13.8	11.6	6.93	5.44	4.44	3.63	3.16	2.56	2.14	1.18
1.80V/cell	55.5	40.9	32.3	27.6	21.5	15.9	13.0	7.51	5.82	4.71	3.88	3.37	2.71	2.21	1.19
1.75V/cell	61.2	44.3	34.9	29.4	22.2	16.3	13.5	7.76	5.91	4.80	3.97	3.46	2.75	2.26	1.20
1.70V/cell	65.6	47.1	36.7	30.7	22.9	16.9	13.9	7.94	6.06	4.92	4.06	3.52	2.78	2.31	1.22
1.65V/cell	71.3	50.4	38.7	32.3	24.0	17.2	14.1	8.01	6.29	5.07	4.16	3.59	2.82	2.35	1.23
1.60V/cell	76.8	53.5	40.8	34.1	25.2	17.8	14.2	8.31	6.45	5.21	4.28	3.65	2.84	2.37	1.24



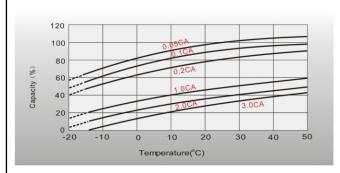
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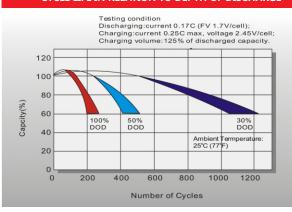
PERFORMANCE CHARACTERISTICS



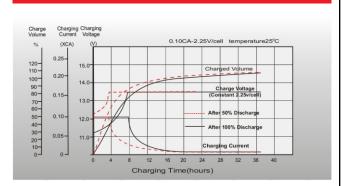
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



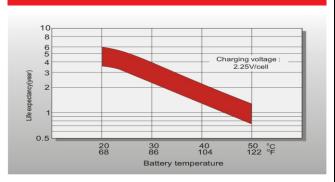
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



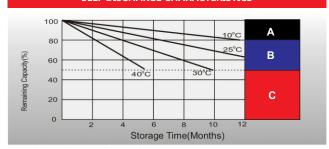
FLOAT CHARGING CHARACTERISTICS



TEMPERATURE EFFECTS ON LONG TERM FLOAT LIFE



SELF DISCHARGE CHARACTERISTICS



A No supplementary charge required (Carry out supplementary charge before use if 100% capacity is require

Supplementary charge required before use. Optional charging way as below:

1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.

2. Charged for above 26hours at limited current 0.25CA and constant volatge 2.45V/cell.

3. Charged for 8~10hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

EURO PLUS VRLA BATTERIES