

EURO PLUS - EMF 42

12V-42AH - AGM MONOBLOCK VRLA BATTERY

Applications:

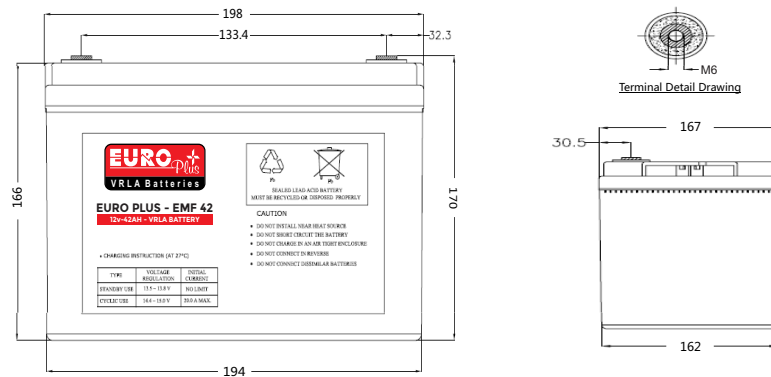
- UPS
- Data Centers
- Emergency Lighting
- Security Systems
- Medical Instruments

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	42Ah @ C ₂₀ upto 1.75ECV @27°C
Weight	13.5 Kgs
Maximum Discharge Current(1 min 1.60 ECV)	126AMP
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	10.5 AMP
Equalization and Cycle Service	14.4 to 15 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	M6
Container & Cover Material	ABS

Dimensions :	Length ± 5 mm	Width ± 5 mm	Height ± 5 mm
Battery	198	167	170



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

FV	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	7HR	8HR	9HR	10HR	12HR	20HR
1.60V	124.8	91.2	71.9	41.2	25.4	14.2	10.5	8.4	7.2	6.2	5.5	5.0	4.5	4.2	3.5	2.2
1.65V	118.1	86.7	67.5	39.9	25.1	13.9	10.2	8.3	7.1	6.1	5.4	4.9	4.5	4.1	3.5	2.2
1.70V	113.3	82.1	65.4	38.2	24.7	13.7	10.0	8.1	7.0	6.0	5.3	4.8	4.4	4.1	3.5	2.2
1.75V	104.8	77.5	63.6	37.3	24.4	13.4	9.8	8.0	6.9	5.9	5.2	4.7	4.3	4.0	3.4	2.1
1.80V	96.2	70.5	57.5	35.6	23.3	12.9	9.5	7.7	6.7	5.8	5.1	4.6	4.2	3.9	3.3	2.1

Constant Power Discharge Characteristics : (Watts / Cell @ 27°C)

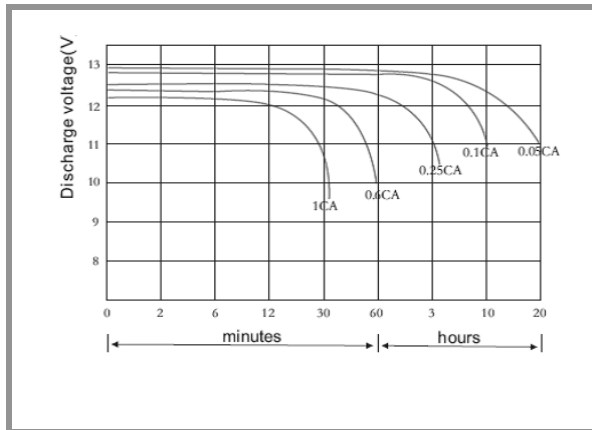
FV	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	7HR	8HR	9HR	10HR	12HR	20HR
1.60V	246.1	173.5	138.2	91.1	54.5	30.6	22.5	17.6	14.7	12.6	11.3	10.0	9.1	8.5	7.2	4.7
1.65V	228.4	159.8	125.5	81.3	50.2	28.5	21.3	16.7	13.8	12.0	10.7	9.7	8.9	8.3	7.1	4.6
1.70V	210.8	152.0	121.6	78.7	49.3	27.7	20.5	16.2	13.6	11.9	10.6	9.6	8.9	8.3	7.0	4.5
1.75V	194.1	145.1	117.6	76.2	48.5	27.3	20.2	16.0	13.4	11.7	10.4	9.4	8.6	8.0	6.8	4.4
1.80V	182.4	137.3	113.7	73.5	47.6	26.8	19.8	15.8	13.3	11.5	10.2	9.2	8.5	7.9	6.7	4.3

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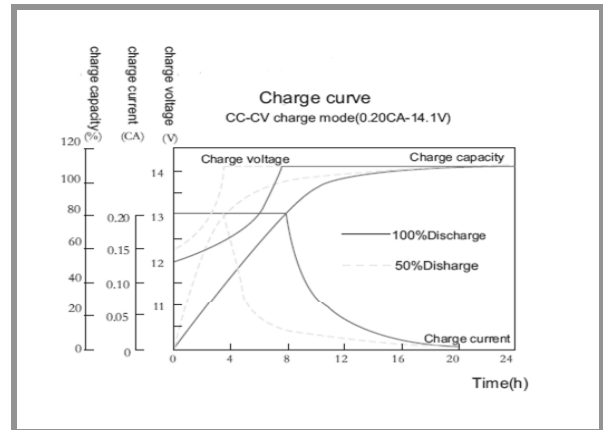
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PERFORMANCE CHARACTERISTICS

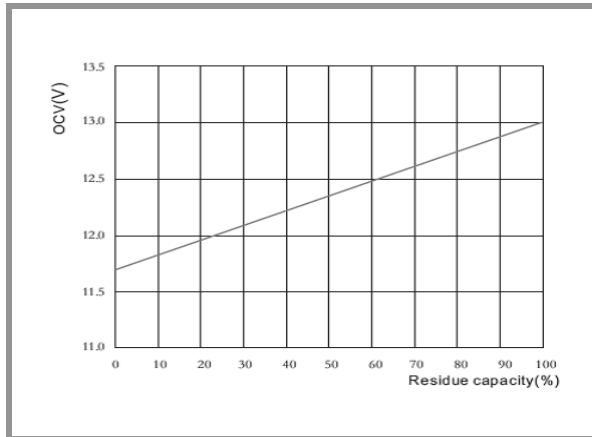
Discharge Curve



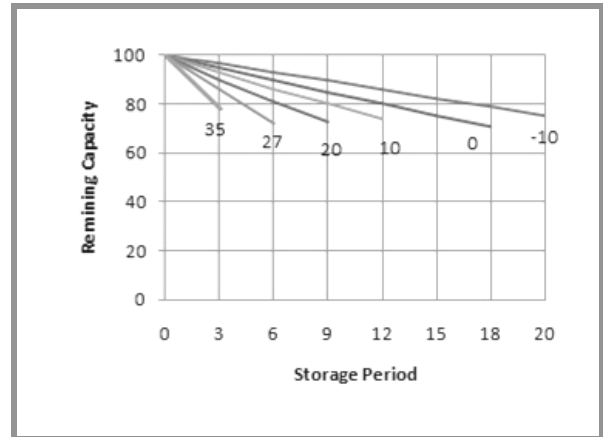
Charge Curve



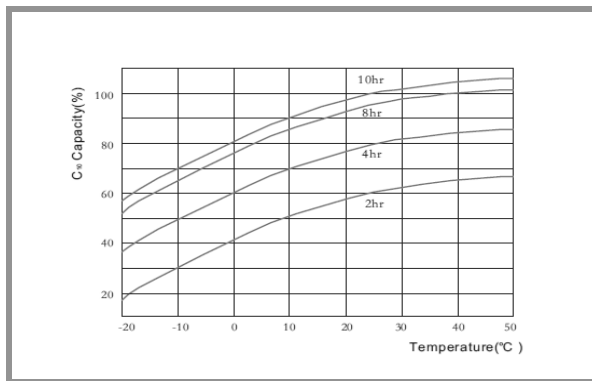
Ocv vs. State Of charge



Residual Capacity Vs. Storage time



Temperature Vs. Capacity Curve



Temperature Vs. design Life Curve

