

Battery Particulars

- Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)
- Battery Rating : 12V-12Ah to 10.5 EMV @ C20 at 27°C
- Manufacturers Model No : 12AL012
- Volts/Module : 12 volts
- Module dimensions (L x W H)±2mm : (151 X 98 X 99) mm Approx.
- Module weight ±5% : 3.75Kg. Approx.
- Terminal Type : F2 (Faston tab)

Charge Regime

- Batteries shall be charged in constant potential mode with current limit.
- Stand by charging voltage : 13.5 to 13.8 volts per module @ 27°C
- Cyclic charging voltage : 14.4 to 15.0 Volts Per Cell @ 27°C
- Charging current Limit : 1.2Amps minimum to 3.0Amps maximum
- Temperature compensation : Stand by: -18mV/°C/battery, Cyclic: -30mV/°C/battery

Product Details

- AH efficiency : Above 95%
- WH efficiency : Above 85%
- Self Discharge/Week @ 27°C : < 1% of rated capacity
- Recommended Max. period of storage : 3 Months from the date of manufacturing and the batteries shall be Stored in covered area at 27°C
- Poly Material : Acrylonitrile Butadiene Styrene (ABS)
- Type of separator : Highly absorbent Micro porous spun glass matrix.(AGM)
- Type of +ve & -ve plates : Flat pasted.
- Internal resistance (fully charged) : 13.0mΩ at 27°C
- Max. discharge current (5 sec) : 180A
- Voltage ripple allowable : < 2% of the RMS Value

Applicable Standards

- Batteries generally conforms to JIS 8702C International Standard

Constant current discharge rating - amps at 27° C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	32.70	24.20	13.50	8.82	4.68	3.29	2.23	1.25	0.64
1.7	30.70	22.90	13.00	8.63	4.56	3.19	2.14	1.22	0.62
1.75	29.40	22.10	12.60	8.52	4.47	3.13	2.08	1.20	0.60
1.8	28.10	21.30	12.10	8.40	4.36	3.06	2.03	1.18	0.58

Constant power discharge rating - watts at 27°C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	348.6	266.3	150.3	100.0	53.3	36.7	25.6	14.4	7.5
1.7	327.4	252.0	145.1	97.1	52.2	35.4	24.6	14.1	7.2
1.75	313.7	243.4	140.6	95.4	51.7	34.6	23.9	13.9	7.1
1.8	300.0	234.3	134.9	93.1	51.0	33.5	23.3	13.7	6.9

Note: 1. The above data are average values per battery and can be obtained within five charge/discharge cycles.
 2. A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.