

Technical Particulars DOCREF: IAE/ SVRLA/TP/17-18; Rev: 02



Battery Particulars

• Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)

• Battery Rating : 12V-7.2Ah to 10.5 EMV @ C20 at 27°C

Manufacturers Model No
 Volts/Module
 12AL007
 12 volts

• Module dimensions (L x W H)±2mm : (151 X 65 X 101) mm Approx.

Module weight ±5%
 Terminal Type
 2.47 Kg. Approx.
 F2 (Faston tab)

<u>Charge Regime</u>: 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
 14.2 to 14.4 Volts Per Cell @ 27°C

• Charging current Limit : 0.72Amps minimum to 1.80Amps 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) approx. : $<25 m\Omega$ at $27^{\circ}C$

• Max. discharge current (5 sec) : 108A

• Voltage ripple allowable : <2% of 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	16.3	13	7.8	4.7	2.8	1.9	1.3	0.7	0.4
1.7	15.3	11.9	7.2	4.55	2.6	1.8	1.22	0.68	0.38
1.75	14.7	11.6	7.1	4.45	2.55	1.75	1.16	0.66	0.36
1.8	14.1	11.3	7.0	4.35	2.50	1.70	1.10	0.64	0.34

Constant power discharge rating - watts at 27°C

F	ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
	1.6	199.5	156.8	92.7	58	35.7	23.4	16	8.5	4.6
	1.7	195.8	146.2	88.6	55.9	32.7	22.1	15	8.4	4.4
	1.75	185.7	140.9	86.8	54.9	31.3	21.7	14.6	8.3	4.3
	1.8	175.6	135.6	84.9	53.8	29.9	21.2	14.2	8.2	4.2

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**Due to on going improvement the specifications are subjected to modification without prior notice.