

# TECHNICAL DATA SHEET

## DAS12-100

### Specifications

Nominal voltage:	12 Volts
Design life	5 Years
Operating Temperature	-20°C to 50°C (Recommended)
Grid Alloy	Calcium/Tin lead alloy
Plates	Flat Pasted
Separator	Absorbed Glass Mat
Active Material	High purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.27 - 2.30 VPC @20°C Cycling 2.4 @20°C Max. 2.4 VPC max ripple 0.05C (A)
Electrolyte	Sulphuric acid, low impurity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Terminal	Various types Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value for all screw types is 5-7 Nm
Cables	Insulated cables/connectors supplies on request.

**Discharge Time (minutes) (Table shows Amps)**

	VPC	5	10	15	20	25	30	35	40	45	60	90	120	180	240
<b>DAS12-100</b>	1.75	294	229	182	144	123	107	95.7	87.0	79.9	64.0	44.9	35.0	24.2	18.6
	1.70	311	239	182	148	126	109	97.4	88.5	81.3	65.0	45.9	35.9	24.5	18.9
	1.65	328	244	186	151	127	110	98.2	89.4	82.0	65.8	46.7	36.3	24.7	-

**Discharge Time (minutes) (Table shows watts per cell)**

	VPC	5	10	15	20	25	30	35	40	45	60	90	120	180	240
<b>DAS12-100</b>	1.75	533	417	324	266	229	199	179	163	151	121	85.9	67.3	46.7	36.1
	1.70	559	432	331	271	231	202	181	165	153	123	87.4	68.8	47.3	36.7
	1.65	587	440	338	276	234	204	182	167	154	124	88.8	69.3	47.5	-

	Dimensions & Weight (mm)					Dimensions & Weight (Inches & lbs)					Terminal Type	Terminal Position	Pcs Per Box T1
	Length	Width	Height	Inc Tabs	Weight	Width	Height	Inc Tabs	Weight L				
	L	W	H	h	kg	W	H	h	lbs				
<b>DAS12-100</b>	305	168	208	210	30.00	12.01	6.61	8.19	8.27	66.30	Insert	B	1

	Nominal Voltage	Nominal capacity 20 hr Rate	10hr 1.75 vpc	5 hr 1.75 vpc	3hr 1.75 vpc	1hr 1.75 vpc	Max Charge Amps	Max Discharge Amps	Internal Resistance mOhms
<b>DAS12-100</b>	12	100	85.6	75.8	72.5	64.0	25.0	900	3.9

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Capacity temperature correction Factor to be applied to Data at 20 Degrees C									
Discharge Time	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C
5 minutes to 59 minutes	0.8	0.86	0.91	0.96	1	1.037	1.063	1.085	1.1
1 Hour to 100 Hours	0.86	0.9	0.93	0.97	1	1.028	1.05	1.063	1.07

