

ENERGY SAFE

0841280

Energy Safe Valve Regulated Lead Acid battery.
5 year design life for stand by power applications.

Innovative Features

Completely maintenance free, sealed construction eliminates the need for watering

Fully tank formed plates

Analytical Grade electrolyte

Spill proof / leak proof

Valve regulated Max internal pressure 2.5 psi

Multi-position usage

ABS Case and cover - V0 on request

Low self discharge

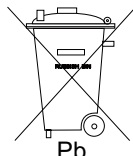
FAA and IATA approved as non-hazardous

Built to comply with IEC 896-2, DIN 43534, BS 6290 Pt4, Eurobat.



Specifications

Nominal Voltage	12 Volts
Nominal Capacity	83.8Ah (C20 @ 20 °C)
Design Life	5 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted Absorbant Glass Mat
Active material	Very high purity lead
Case and cover	ABS (VO on request)
Charge Voltage	Float 2.25 - 2.30 VPC @25 °C Cycling 2.35 @25 °C Max. 2.4 VPC Max ripple 0.05C (A)
Venting Valve	Sulphuric acid Analytical grade purity EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Terminal	Epoxy sealed by extended mechanical paths



Accu Italia SpA keenly encourages environmental awareness; PLEASE follow guidelines for the recycling /disposal of lead.

Website: www.accu-italia.com
E mail : infoaccu@accu-italia.com

Sealed Lead Acid 12 Volt Bloc AGM Range
PRODUCT SHEET 0841280

12V
AGM

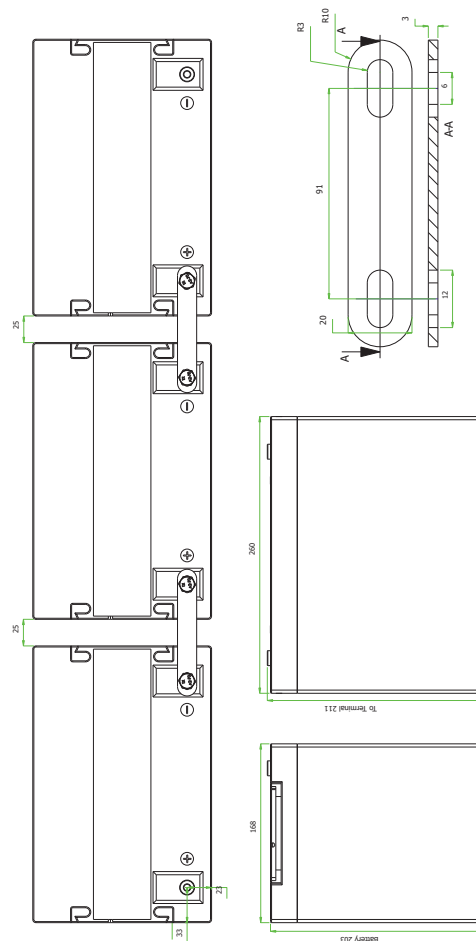
Specifications

Nominal Voltage		12 V	
Nominal Capacity		83.8 Ah	
Dimensions	Height	203 mm	8.31 inches
	(To terminals)	211 mm	6.45 inches
	Length	260 mm	10.4 inches
	Width	168 mm	6.61 inches
	Weight	25.1 Kg	55.5 lbs

Characteristics

Capacity 20 °C (68 °F) to 1.75 volts	20 hour rate	83.8 Ah
	10 hour rate	76.6 Ah
	5 hour rate	66.0 Ah
	1 hour rate	52.1 Ah
	15 min rate	33.2 Ah
	Internal Resistance	-- mOhms
Capacity correction for Temperature Variations (C20)	Impedance	S
	40 °C (104 °F)	102%
	20 °C (68 °F)	100%
	0 °C (32 °F)	85%
Self-Discharge 20 °C (68 °F)	-15 °C (5 °F)	65%
	Capacity after 1 months storage	98%
	Capacity after 3 months storage	94%
Short Circuit Current 20 °C (68 °F)	Capacity after 6 months storage	86%

Terminal	Standard	Insert
	Optional	
Charging (Constant Voltage)	Cyclic	2.35 - 2.40 VPC (20-25 °C)
	Float	2.27 - 2.30 VPC (15-25 °C)



Constant Power Discharge - Watts per Cell @20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	304	250	217	185	164	146	133	122	113	90.3	65.0	50.4	34.6	26.7	-	-	-	-	-
1.80	336	269	231	197	171	152	138	127	116	92.3	66.1	51.0	35.0	27.0	-	-	-	-	-
1.75	361	285	243	202	176	156	141	129	119	94.1	66.6	51.5	35.3	27.3	-	-	-	-	-
1.70	379	296	252	209	180	158	144	131	121	95.3	67.3	51.8	35.7	27.5	-	-	-	-	-
1.65	416	311	259	214	185	162	147	133	123	96.4	68.1	52.4	35.9	27.7	-	-	-	-	-
1.60	442	324	266	219	187	165	149	135	124	97.6	68.6	52.7	36.2	27.9	-	-	-	-	-

Constant Amps Discharge - Amps @20 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	171	139	117	100.7	89.1	79.5	72.8	66.8	61.8	49.8	35.2	27.5	19.3	15.2	12.7	8.82	7.35	6.31	3.99
1.80	189	153	127	107	93.7	83.7	75.7	69.9	64.3	51.3	36.0	28.0	19.7	15.5	13.0	9.00	7.53	6.46	4.13
1.75	202	159	133	112	97.5	86.9	78.3	71.8	65.7	52.1	36.6	28.5	20.1	15.8	13.2	9.17	7.66	6.56	4.19
1.70	217	168	139	116	100.7	89.1	80.0	73.1	66.7	53.0	37.1	28.9	20.4	16.0	13.4	9.36	7.79	6.68	4.28
1.65	239	176	144	120	103	90.6	81.2	74.1	67.8	53.5	37.4	29.2	20.6	16.2	-	-	-	-	-
1.60	256	184	148	123	106	92.4	82.6	75.3	68.6	54.2	37.8	29.4	20.8	16.3	-	-	-	-	-

Ampere Hour @20 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	55.0	57.9	60.8	63.5	70.5	73.5	75.7	79.8
1.80	56.0	59.1	62.2	65.0	72.0	75.3	77.5	82.6
1.75	57.0	60.3	63.2	66.0	73.3	76.6	78.7	83.8
1.70	57.8	61.2	64.0	67.0	74.9	77.9	80.1	85.6



UL Recognised
Component
MH28512

