

Valve Regulated Lead Acid battery. 12 year design life for stand by power applications. 12 Volts 93 Ah

Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Special formation process
- 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	93Ah (C20 @ 20-25 °C)
Design Life	12 Years
Operating Temperature	-20 °C to 50 °C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat Pasted
Separator	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 See cyclic charging profile Max ripple 0.05C (A)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	EPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
Terminal	Insert 16mm Dia M6 thread. Epoxy sealed by extended mechanical paths
Torque setting	The recommended torque value for all types is 5-7 Nm
Cables	Connectors, cables, terminal covers on request.

RECYCLE Pb

12V AGM

Specifications

Nominal	Voltage	12V		1		
Nominal C	Capacity	93 Ah				
	Total Height	211 mm	8.31 inches		25.0	
	(Inc. terminals)	n/a mm	n/a inches	ſ		
Dimensions	Length	260 mm	10.24 inches			
	Width	168 mm	6.61 inches			0
	Weight	26 Kg	57.46 lbs		000000	000000
Characteristics				- 22.0		
	20 hour	rate	93.3 Ah	32.0		
	10 hour	rate	90.5 Ah			
Capacity	5 hour r	ate	82.0 Ah		23.7	HZ12V70/80SV
20-25 °C (68-77 °F)	1 hour r	ate	61.3 Ah		260±1	168±1
To 1.7 volts	15 min	rate	38.6 Ah			
	Internal Res	sistance	4 mOhms			
	Impeda	nce	1150 S			+2
Consolity connection for	40	°C (104 °F)	102%	Battery 210±2		To Terminal 211±2
Capacity correction for Temperature Variations	20	°C (68 °F)	100%	ery 2		nina
(C20)	0	°C (32 °F)	85%	Batte		Terr
	-1	5 °C (5 °F)	65%			P
Self-Discharge	Capacity after	er 1 months storage	98%			
20 °C (68 °F)	Capacity after	er 3 months storage	94%		L	ųų
	Capacity aft	er 6 months storage	86%	1		
Short Circuit Current 20 °C (68 °F)		2400				
Terminal	Standard		t M6 th read]		
Termina	Optional		- J Type - Auto			
Charging	Cyclic		°C (20-25 °C)			
(Constant Voltage)	Float	2.27 - 2.30 V	PC (15-25 °C)			

Constant Power Discharge - Watts per Cell @ 20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	441	316	258	219	190	168	152	139	128	102	73.9	58.3	41.9	33.1	27.6	23.7	20.8	18.5	15.1	12.7	7.96
1.80	471	337	276	234	203	180	162	148	136	109	79.0	62.3	44.8	35.4	29.5	25.3	22.3	19.7	16.1	13.6	8.50
1.75	501	359	293	249	216	191	173	158	145	116	84.0	66.3	47.6	37.6	31.4	26.9	23.7	21.0	17.1	14.5	9.05
1.70	512	367	300	255	221	195	177	161	148	119	85.8	67.7	48.7	38.5	32.1	27.5	24.2	21.5	17.5	14.8	9.25
1.67	517	370	302	257	223	197	178	163	149	120	86.6	68.3	49.1	38.8	-	-	-	-	-	-	-
1.65	519	371	303	258	224	198	179	163	150	120	86.9	68.6	49.3	39.0	-	-	-	-	-	-	-
1.60	524	375	306	260	226	200	181	165	151	121	87.8	69.2	49.8	39.3	-	-	-	-	-	-	

Constant Amps Discharge - Amps @ 20-25 °C

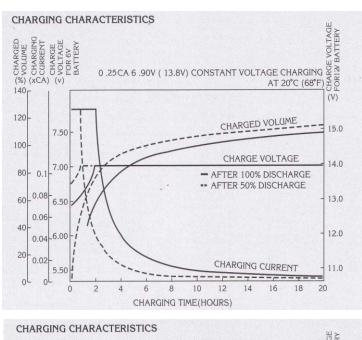
End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	233	161	133	114	100	89.4	80.4	73.1	66.9	52.8	37.8	29.7	21.4	16.9	14.1	12.2	10.7	9.52	7.79	6.56	4.02
1.80	249	172	142	122	107	95.5	85.9	78.1	71.4	56.4	40.4	31.8	22.9	18.1	15.1	13.0	11.4	10.2	8.32	7.01	4.29
1.75	265	183	151	129	114	102	91.4	83.1	76.0	60.0	42.9	33.8	24.3	19.3	16.0	13.8	12.1	10.8	8.85	7.45	4.56
1.70	271	187	155	132	117	104	93.4	84.9	77.7	61.3	43.9	34.5	24.9	19.7	16.4	14.1	12.4	11.1	9.05	7.62	4.66
1.67	273	189	156	133	118	105	94.2	85.7	78.4	61.9	44.3	34.8	25.1	19.9	-	-	-	-	-	-	-
1.65	274	190	156	134	118	105	94.6	86.0	78.7	62.1	44.4	35.0	25.2	19.9	-	-	-	-	-	-	-
1.60	277	191	158	135	119	106	95.5	86.8	79.4	62.7	44.9	35.3	25.4	20.1	-			-	-	-	-

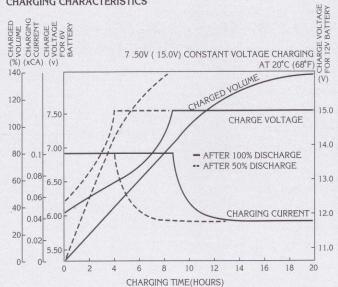
Ampere Hour @ 20-25 °C

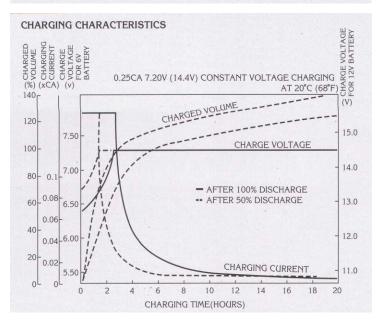
End V per Cell	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	59.5	64.2	67.8	70.6	73.0	74.6	76.1	77.9	78.7	80.3
1.80	63.5	68.6	72.4	75.4	78.0	79.7	81.3	83.2	84.1	85.8
1.75	67.6	73.0	77.0	80.2	83.0	84.8	86.5	88.5	89.4	91.3
1.70	69.1	74.6	78.7	82.0	84.8	86.7	88.4	90.5	91.4	93.3
1.67	69.7	75.3	79.4		-	-	-	-	-	-
1.65	70.0	75.5	79.7	-	-	-	-	-	-	-
1.60	70.6	76.3	80.5	-	-	-	-	-	-	-

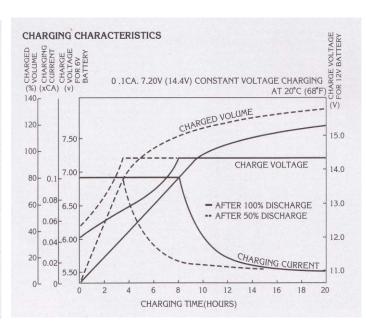


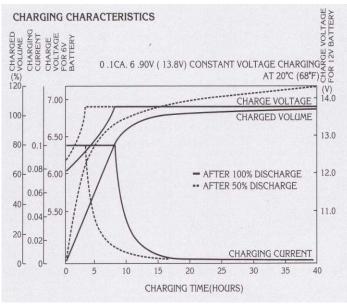
Charging Characteristics - Constant voltage charging

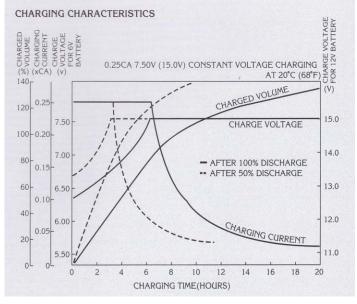


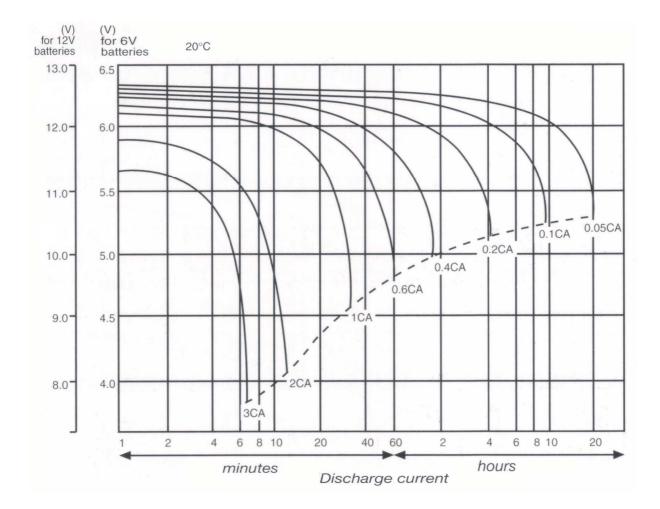












Applicable to AGM and Gel products

Note: Battery specific discharge curves are not published, as there is very little variation in the lead/acid discharge profile due to battery size of plate profile.