



ESL 55-12



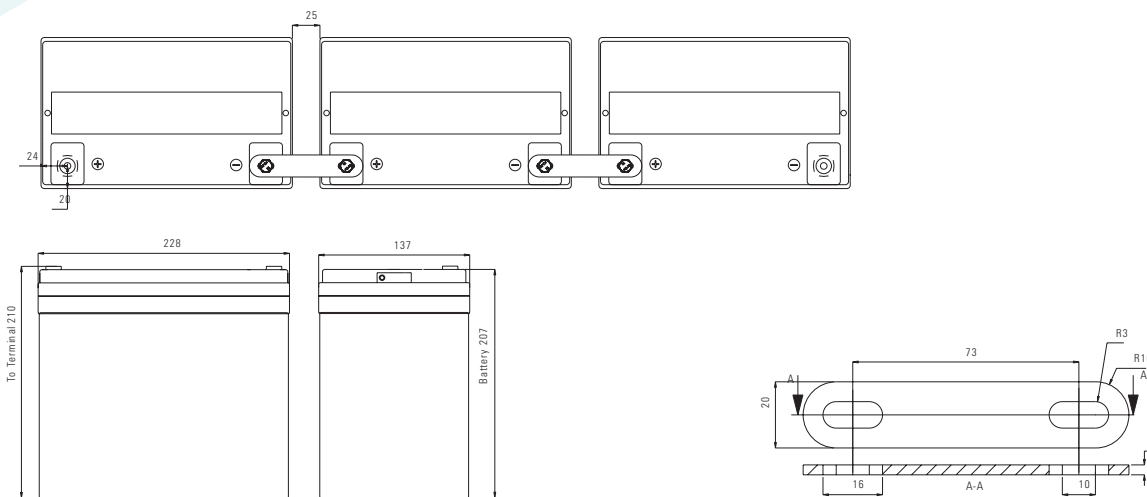
Innovative Features

- 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 8962, DIN 43534, BS 6290 Pt4, Eurobat

Specifications

- Nominal Voltage.....12 Volts
- Nominal Capacity55Ah (C20 @ 20 °C)
- Design Life12 Years
- Operating Temperature...-20 °C to 50 °C
- Grid alloy.....Calcium / Tin lead alloy
- Plates.....Flat Pasted
- SeparatorAbsorbant Glass Mat
- Active material.....Very high purity lead
- Case and cover.....ABS (VO on request)
- Charge VoltageFloat 2.25 - 2.30 VPC @25 °C
Cycling 2.35 @25 °C
Max. 2.4 VPC Max ripple 0.05C (A)
- ElectrolyteSulphuric acid Analytical grade purity
- Venting ValveEPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
- TerminalInsert 14mm 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.

Terminal Dimensions



Specifications

Nominal Voltage	12V		
Nominal Capacity	55 Ah		
Dimensions	Total Height - (Inc. terminal s)	207 mm - n/a mm	8,15 inches - n/a inches
	Length - Width	228 mm - 137 mm	8,98 inches - 5,39 inches
Weight 17,5 Kg - 38,68 lbs			

Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate 10 hour rate 5 hour rate 1 hour rate 15 min rate Internal Resistance Impedance	54,6 Ah 47,2 Ah 42,8 Ah 35,5 Ah 27,4 Ah 6,5 mOhms S
Capacity correction for Temperature Variations (C20)	40 °C (104 °F) 20 °C (68 °F) 0 °C (32 °F) -15 °C (5 °F)	102% 100% 85% 65%
Self-Discharge 20 °C (68 °F)	Capacity after 1 months storage Capacity after 3 months storage Capacity after 6 months storage	98% 94% 86%
Short Circuit Current 20 °C (68 °F)	1700	
Terminal	Standard Optional	14mm Insert M6 thread Lead Flag - J Type - Auto
Charging (Constant Voltage)	Cyclic Float	2.35 - 2.40 VPC (20-25 °C) 2.27 - 2.30 VPC (15-25 °C)

Constant Power Discharge - Watts per Cell at 20°C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	265	214	172	141	118	103	92.4	84.3	78.1	63.6	45.5	35.3	24.5	19.1
1.80	288	243	192	151	125	108	97.0	88.0	81.4	65.5	46.0	35.6	25.1	19.5
1.75	299	250	196	155	129	111	98.6	89.6	82.2	65.5	46.1	35.7	25.2	19.7
1.70	314	257	199	157	129	112	98.9	90.1	83.6	67.2	47.0	36.4	25.9	20.2
1.65	322	264	204	161	132	113	99.9	91.0	84.1	67.5	47.6	36.8	26.0	-
1.60	336	270	207	163	134	115	102	92.0	85.0	68.0	48.1	37.0	26.1	-

Constant Amps discharge - Amps at 20°C

End V per Cell	5 M	10 M	15 M	20 M	25 M	30 M	35 M	40 M	45 M	60 M	90 M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	142	114	91.9	74.7	62.4	54.3	48.7	44.3	40.9	33.2	23.6	18.2	12.6	9.73	8.00	5.39	4.43	3.79	2.55
1.80	157	132	104	81.2	67.2	57.8	51.6	46.6	43.0	34.4	24.0	18.5	12.9	9.98	8.24	5.54	4.58	3.92	2.64
1.75	165	137	107	84.0	69.3	59.8	52.6	47.7	43.6	34.5	24.1	18.6	13.0	10.1	8.32	5.59	4.61	3.94	2.65
1.70	175	142	109	85.9	70.2	60.4	53.2	48.2	44.5	35.5	24.7	19.0	13.4	10.4	8.57	5.70	4.72	4.06	2.73
1.65	180	146	112	88.3	72.0	61.5	53.9	48.8	44.9	35.8	25.0	19.2	13.5	-	-	-	-	-	-
1.60	189	151	115	89.5	73.3	62.6	55.0	49.4	45.4	36.1	25.3	19.4	13.6	-	-	-	-	-	-

Ampere Hour at 20 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	36.4	37.7	38.9	40.0	43.1	44.3	45.5	50.9
1.80	36.9	38.8	39.9	41.2	44.3	45.8	47.0	52.7
1.75	37.2	39.1	40.5	41.6	44.7	46.1	47.3	53.0
1.70	38.0	40.3	41.7	42.8	45.6	47.2	48.7	54.6
1.65	38.5	40.5	-	-	-	-	-	-
1.60	38.8	40.7	-	-	-	-	-	-