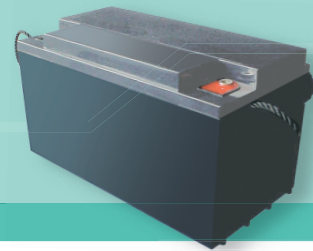




ESL 120-12



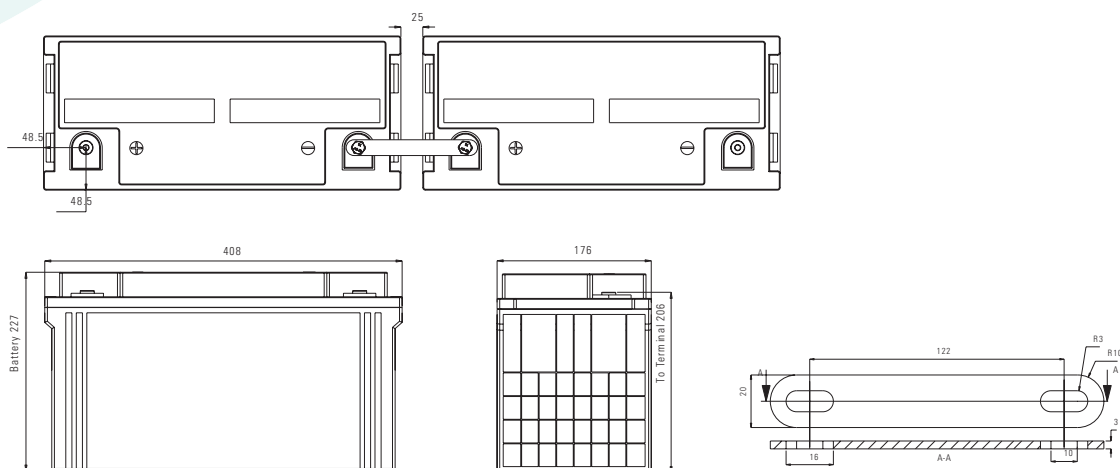
Innovative Features

- 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 - VO 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 Capacity 120Ah (C20 @ 20 °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 2.35 @25 °C
Max. 2.4 VPC 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 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	120 Ah		
Dimensions	Total Height - (Inc. terminal s)	227 mm - n/a mm	8,94 inches - n/a inches
	Length - Width	408 mm - 176 mm	16,06 inches - 6,93 inches
Weight 35 Kg - 77,35 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	120,0 Ah 107,5 Ah 95,1 Ah 80,7 Ah 55,4 Ah 3 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)	3300	
Terminal	Standard Optional	14mm Insert M6 thread Cu/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	493	406	341	292	261	233	209	193	176	144	105	81.4	56.7	43.1
1.80	603	478	382	322	278	246	220	201	185	149	107	83.4	57.6	44.1
1.75	613	502	394	330	285	251	224	203	188	150	107	84.1	58.0	44.2
1.70	641	507	403	333	289	254	227	207	191	153	109	84.6	58.5	44.9
1.65	669	514	407	336	292	257	229	209	193	155	110	85.0	58.7	-
1.60	700	533	420	343	294	260	232	211	194	156	111	85.6	58.8	-

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	265	217	182	155	138	123	110	102	92.2	75.2	54.3	42.0	29.1	22.0	17.9	12.1	10.0	8.60	5.59
1.80	329	260	207	173	149	131	117	106	97.9	78.0	55.7	43.3	29.7	22.6	18.4	12.5	10.4	8.90	5.80
1.75	339	276	215	179	154	135	119	108	99.8	78.9	56.0	43.8	30.0	22.8	18.6	12.6	10.4	8.94	5.82
1.70	357	281	222	182	157	137	122	111	102	80.7	57.1	44.2	30.3	23.2	19.0	12.9	10.8	9.21	6.00
1.65	374	286	224	184	159	139	123	112	103	82.1	58.0	44.5	30.5	-	-	-	-	-	-
1.60	393	297	232	188	160	141	125	113	104	82.7	58.7	44.8	30.6	-	-	-	-	-	-

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	84.0	87.2	87.8	89.6	97.0	100	103	112
1.80	86.5	89.0	90.4	92.0	100	104	107	116
1.75	87.5	90.0	91.0	93.0	101	104	107	116
1.70	88.3	91.0	92.6	95.1	103	108	111	120
1.65	88.9	91.4	-	-	-	-	-	-
1.60	89.6	91.7	-	-	-	-	-	-

