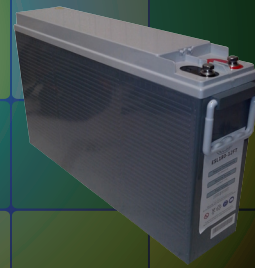




ESL 180 - 12 FT

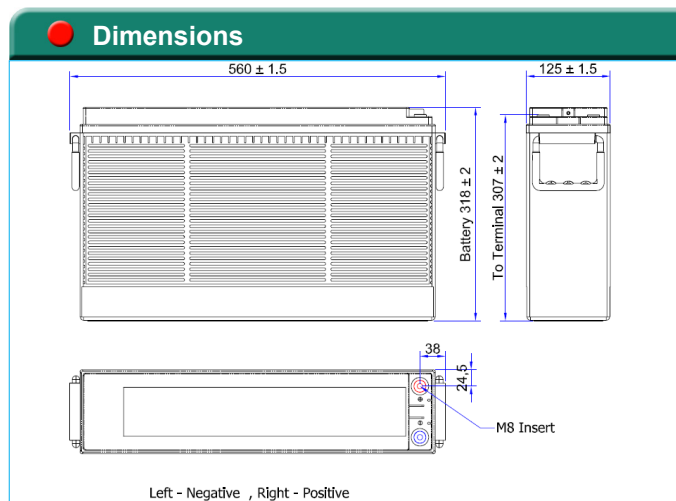
12V - 180 Ah



Electrical specifications			
Nominal Voltage			12 V
Capacity 25°C to 1,8V/c	20 hour rate		192,0 Ah
	10 hour rate		178,0 Ah
	8 hour rate		170,4 Ah
	3 hour rate		132,9 Ah
	1 hour rate		109,0 Ah
Self discharge @ 25°C	per month		2,5 - 3 %
Internal Resistance	fully charged		4,44 mΩ
Impedance	fully charged		1350 S
Maximum current	charging		20 A
Charge Voltage @25°C	Float (-3mV/°C/c)	2,25 - 2,29	V/Cell
Charge Voltage @25°C	Cyclic (-5mV/°C/c)	2,37 - 2,40	V/Cell

Other specifications			
Design Floating Life @20°C			12 Years
Dimensions LxWxH (± 2mm)		560x125x318	mm
	Total height		318 mm
Operating Temperature (storage)			-20 to +50 °C
Separator		Absorbent Glass Mat	
Grid alloy		Calcium / Tin lead alloy	
Case and cover		ABS	
Electrolyte		Sulphuric Acid	
Terminal / Length		M8 / 20mm	insert
Optional terminal types		none	
Torque setting		8	Nm
Weight		53,5 (±5%)	kg

- | Innovative Features |
|---|
| • Completely maintenance free, sealed construction eliminates the need for adding water |
| • 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 |
| • Low self discharge |
| • FAA and IATA approved as non-hazardous |
| • Built to comply with IEC 8962, DIN 43534, BS 6290 Pt4, Eurobat |



Constant Amps discharge - Amps at 25°C																								
V/Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	90min	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1,80	381	271	215	204	177	166	151	139	129	121	114	109	72,8	58,1	44,3	35,3	30,5	26,5	23,7	21,3	19,5	17,8	15,5	9,60
1,75	421	392	231	212	184	170	154	143	132	124	117	111	74,0	59,5	45,0	35,5	30,6	26,6	23,7	21,3	19,5	17,9	15,5	9,60
1,70	461	313	246	219	190	174	158	146	135	127	120	114	76,0	61,0	45,5	36,0	30,8	26,7	23,8	21,4	19,6	17,9	15,6	9,70
1,65	501	334	262	226	196	178	162	150	139	130	123	116	78,0	62,4	46,0	36,5	31,0	26,8	23,8	21,5	19,6	18,0	15,6	9,70
1,60	541	355	277	233	203	182	166	153	142	133	126	119	80,0	63,9	46,5	37,1	31,2	27,0	23,9	21,6	19,7	18,1	15,7	9,80

Constant Power Discharge - Watts/Cell at 25°C																								
V/Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	90min	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1,80	621	466	389	374	331	313	285	262	246	230	217	206	138	110	85,0	67,9	59,9	52,2	46,7	42,3	38,5	35,5	30,9	18,2
1,75	697	578	418	397	343	321	292	269	252	236	233	211	141	113	86,3	68,6	60,2	53,5	46,8	42,4	38,6	35,6	31,0	18,4
1,70	773	582	446	400	355	329	299	276	258	242	238	216	145	116	87,3	69,5	60,5	53,7	47,0	42,5	38,7	35,6	31,1	18,6
1,65	849	596	474	413	367	336	306	282	264	247	234	221	148	119	88,3	70,4	60,8	53,0	47,1	42,6	38,8	35,7	31,1	18,8
1,60	925	610	502	426	380	344	313	289	270	253	239	227	152	121	89,3	71,3	61,1	53,2	47,2	42,7	38,9	35,8	31,2	19,0

Revision: 202009-1

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