



# ESL 100-12

## 12V - 100 Ah



### Electrical specifications

Nominal Voltage	12 V	
Capacity @20-25°C to 1,8V/c	20 hour rate	115,6 Ah
	10 hour rate	109,0 Ah
	8 hour rate	107,2 Ah
	3 hour rate	91,8 Ah
	1 hour rate	72,0 Ah
Self discharge @ 20°C	per month	2,5 - 3 %
Resistance @ 20-25°C	fully charged	approx 3,2 mΩ
Impedance @ 20-25°C	fully charged	1260 S
Short Circuit @ 20°C	3000 A	
Charge Voltage @ 20-25°C	Float (-3mV/°C/c)	2,27 - 2,29 V/Cell
	Cyclic (-5mV/°C/c)	2,35 - 2,40 V/Cell

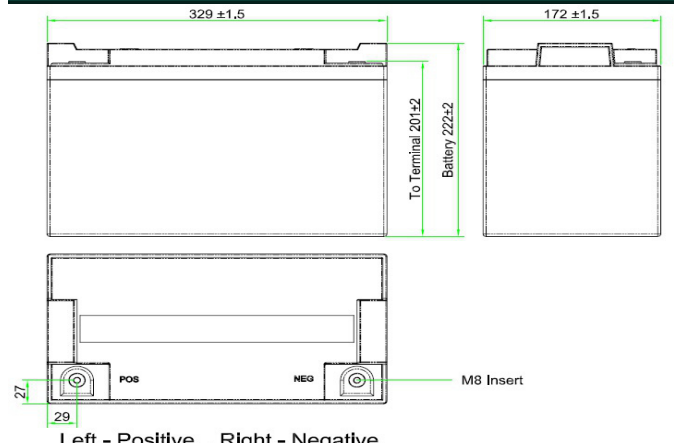
### Other specifications

Design Floating Life @ 20°C	12 Years	
Dimensions LxWxH (± 1mm)	330x171x222 mm	
Total height	222 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	bold M8 / 16mm insert	
Optional terminal types	none	
Torque setting	12.4 Nm	
Weight	29 (±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 - V0 option
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 8962, DIN 43534, BS 6290 Pt4, Eurobat

### Dimensions



### Constant Amps Discharge - Amps at 25°C

V/Cell	5	10	15	20	25	30	35	40	45	50	55	60	90	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1,80	347	238	193	162	140	123	110	99,4	90,2	84,5	77,6	72,0	52,4	42,0	30,6	24,4	20,2	17,2	15,0	13,4	12,0	10,9	9,30	5,78
1,75	369	253	205	172	149	131	117	106	96,0	88,9	81,9	76,6	55,7	44,6	32,6	25,9	21,5	18,3	16,0	14,2	12,7	11,6	9,90	6,14
1,70	377	259	210	176	152	133	119	108	98,1	90,3	83,1	78,3	57,0	45,6	33,3	26,5	22,0	18,7	16,3	14,5	13,0	11,9	10,1	6,28
1,65	382	262	213	178	154	135	121	109	99,4	91,6	84,4	79,3	57,7	46,2	33,7	26,8	/	/	/	/	/	/	/	/
1,60	385	265	215	180	156	136	122	110	100	93,5	86,1	80,0	58,2	46,6	34,0	27,1	/	/	/	/	/	/	/	/

### Constant Power Discharge - Watts per cell at 25°C

V/Cell	5	10	15	20	25	30	35	40	45	50	55	60	90	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1,80	766	469	369	311	268	238	215	196	179	166	154	143	102	80,7	58,6	46,8	39,4	33,8	29,7	26,6	23,8	21,8	18,6	11,8
1,75	814	499	392	331	285	253	229	208	190	175	162	152	108	85,8	62,3	49,7	41,9	36,0	31,6	28,2	25,3	23,2	19,8	12,5
1,70	832	510	401	338	292	258	234	213	195	178	165	155	111	87,7	63,7	50,8	42,8	36,8	32,3	28,9	26,1	23,7	20,2	12,8
1,65	843	516	406	343	295	262	237	216	197	180	167	157	112	88,8	64,5	51,5	/	/	/	/	/	/	/	/
1,60	851	521	410	346	298	264	239	218	199	183	170	159	113	89,7	65,1	52,0	/	/	/	/	/	/	/	/

Revision: 201512-3

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