



# ESL 60-12x

## 12V - 60 Ah



### Electrical specifications

Nominal Voltage	12 V	
Capacity @20-25°C to 1,8V/c	20 hour rate	63,0 Ah
	10 hour rate	57,4 Ah
	8 hour rate	55,5 Ah
	3 hour rate	46,8 Ah
	1 hour rate	38,0 Ah
Self discharge @ 20°C	per month	2,5 - 3 %
Resistance @ 20-25°C	fully charged	approx 4,5 mΩ
Impedance @ 20-25°C	fully charged	800 S
Short Circuit @ 20°C	1300 A	
Charge Voltage @ 20-25°C	Float (-3mV/°C/c)	2,27 - 2,29 V/Cell
	Cyclic (-5mV/°C/c)	2,41 - 2,48 V/Cell

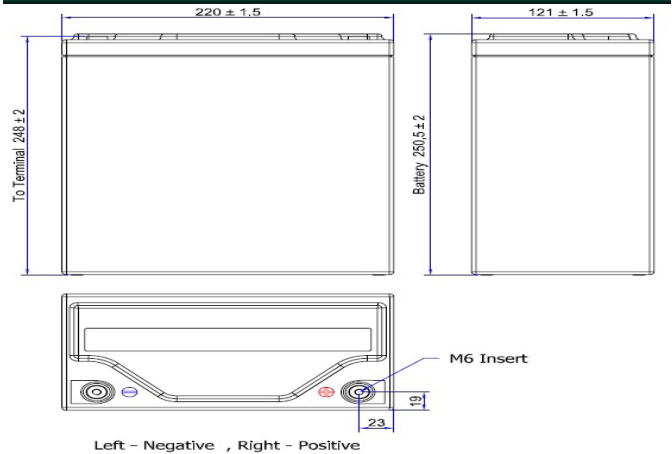
### Other specifications

Design Floating Life @ 20°C	12 Years	
Dimensions LxWxH (± 1mm)	220x121x248 mm	
	Total height	
		251 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 M6 / 16mm insert	
Optional terminal types	none	
Torque setting	5-7 Nm	
Weight	18,5 (±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

### Dimensions



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

V/Cell	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	90m	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1,80	235	150	111	88,9	74,9	65,6	57,9	52,5	47,9	44,1	40,5	38,0	27,3	21,8	15,6	12,3	10,2	8,79	7,88	6,94	6,33	5,74	4,91	3,15
1,75	250	159	119	94,6	79,7	69,8	61,6	55,8	51,0	47,3	43,5	40,4	29,0	23,2	16,6	13,1	10,9	9,35	8,28	7,38	6,67	6,11	5,23	3,35
1,70	255	163	121	96,7	81,4	71,3	62,9	57,1	52,1	47,7	44,3	41,3	29,6	23,7	17,0	13,4	11,10	9,55	8,43	7,54	6,88	6,24	5,34	3,42
1,65	259	165	123	97,9	82,5	72,2	63,7	57,8	52,8	48,8	45,1	41,8	30,0	24,0	17,2	13,5	/	/	/	/	/	/	/	/
1,60	261	166	124	98,9	83,3	72,9	64,4	58,3	53,3	49,0	46,1	42,2	30,3	24,2	17,4	13,7	/	/	/	/	/	/	/	/

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

V/Cell	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	90m	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1,80	410	273	210	170,4	145,4	127,8	113,4	103,9	95,3	88,1	81,6	76,1	55,4	43,9	31,6	24,8	20,5	17,62	15,5	13,80	12,6	11,44	9,78	6,30
1,75	436	290	223	181,3	154,6	136,0	120,6	110,5	101,4	93,1	86,5	81,0	58,9	46,8	33,7	26,3	21,9	18,74	16,5	14,70	13,4	12,17	10,41	6,70
1,70	446	297	228	185,3	158,0	139,0	123,3	113,0	103,6	95,9	88,8	82,8	60,2	47,8	34,4	26,9	22,3	19,2	16,8	15,0	13,6	12,4	10,64	6,85
1,65	452	300	231	187,7	160,1	140,7	124,9	114,4	105,0	97,4	90,0	83,8	61,0	48,4	34,8	27,3	/	/	/	/	/	/	/	/
1,60	456	303	233	189,0	162,0	142,0	126,0	116,0	106,0	97,5	91,2	84,6	61,6	48,9	35,2	27,5	/	/	/	/	/	/	/	/

Revision: 201512-1

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