



ESL 90-12

12V - 90 Ah



Electrical specifications

Nominal Voltage	12 V	
Capacity @20-25°C to 1,8V/c	20 hour rate	106,6 Ah
	10 hour rate	101,0 Ah
	8 hour rate	99,2 Ah
	3 hour rate	83,7 Ah
	1 hour rate	66,7 Ah
Self discharge @ 20°C	per month	2,5 - 3 %
Resistance @ 20-25°C	fully charged	approx. 4 mΩ
Impedance @ 20-25°C	fully charged	1240 S
Short Circuit @ 20°C	2900 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

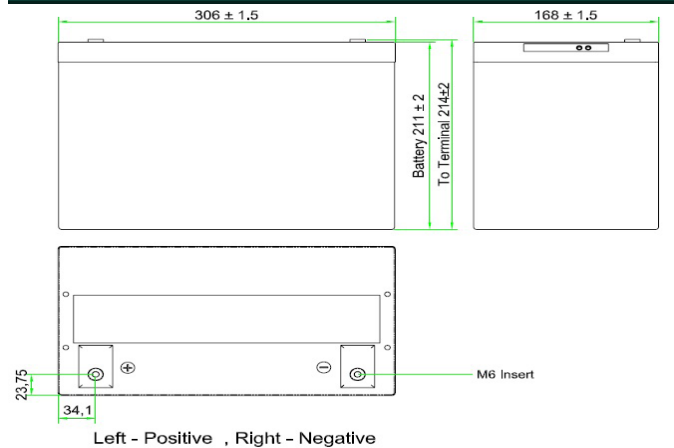
Other specifications

Design Floating Life @ 20°C	12 Years	
Dimensions LxWxH (± 1mm)	306x168x211 mm	
Total height	214 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 / 20mm insert	
Optional terminal types	none	
Torque setting	5-7 Nm	
Weight	29,7 (±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	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	333	223	178	150	130	114	102	91,7	83,6	78,0	72,1	66,7	48,3	38,4	27,9	22,1	18,5	15,9	13,9	12,4	11,1	10,1	8,56	5,33
1,75	355	238	189	160	138	121	108	97,5	88,9	82,0	75,4	71,0	51,3	40,8	29,7	23,5	19,7	16,9	14,8	13,2	12,0	10,7	9,10	5,67
1,70	362	243	194	163	141	124	111	99,6	90,9	83,2	76,5	72,6	52,5	41,7	30,3	24,0	20,1	17,3	15,1	13,4	12,2	11,0	9,30	5,79
1,65	367	246	196	165	143	126	112	101	92,0	84,5	77,7	73,5	53,1	42,2	30,7	24,3	/	/	/	/	/	/	/	/
1,60	371	248	198	167	145	127	113	102	92,9	86,2	79,3	74,2	53,6	42,6	31,0	24,6	/	/	/	/	/	/	/	/

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	576	415	336	279	243	214	195	177	163	152	141	132	95,5	75,2	52,1	40,8	33,6	28,8	25,2	22,5	20,2	18,5	15,8	10,1
1,75	613	442	358	297	258	228	207	189	173	162	150	140	102	80,0	55,9	43,5	35,7	30,6	26,8	24,0	21,6	19,7	16,8	10,7
1,70	627	451	365	304	264	233	212	193	177	164	153	143	104	81,8	57,1	44,4	36,5	31,3	27,4	24,5	22,2	20,2	17,1	10,9
1,65	635	457	370	308	267	236	214	195	179	166	156	145	105	82,8	57,8	45,0	/	/	/	/	/	/	/	/
1,60	641	461	374	311	270	238	216	197	181	169	158	146	106	83,6	58,4	45,4	/	/	/	/	/	/	/	/

Revision: 2022-11

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