



# ESL 18-12 DEG

## 12V - 18 Ah Degassing



### Electrical Specifications @ 25°C

Nominal Voltage		12 V
Capacity	C10 / 1,80V	18,0 Ah
	C5 / 1,75V	15,8 Ah
	C3 / 1,70V	13,6 Ah
	C1 / 1,60V	11,2 Ah
Self Discharge @25°C	per Month	≈ 3 %
Resistance	fully charged	≈ 16 mΩ
Standby use	+/- 1%	2,27-2,30 V/c
Temp. correction factor	+/- 1%	- 3 mV/c /°C
Cyclic use	+/- 1%	2,40-2,45 V/c
Max. charging current	+/- 1%	5,4 A
Temp. correction factor		- 5 mV/c /°C

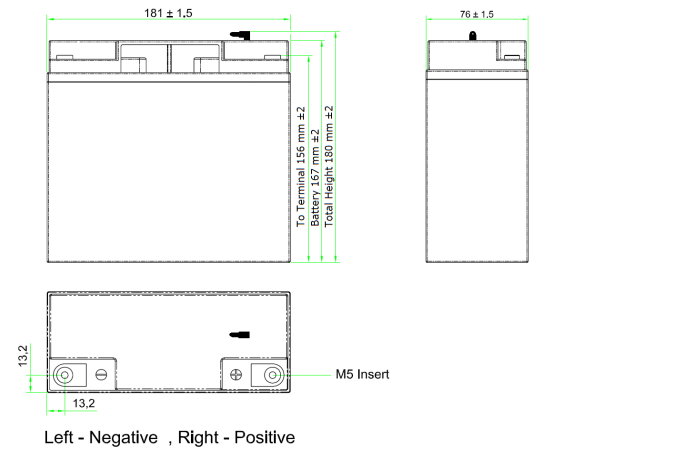
### Other Specifications @ 25°C

Design Life @20°C		12 Years
Dimensions (LxWxH) ±2		181x76x167 mm
Total Height		180 mm
Operating temp.		-15 ~ +70 °C
Charge Operation temp		-10 ~ +50 °C
Container		ABS
Separator		Absorbent glass Mat
Electrolyte		Sulphuric Acid
Terminal / Length		M6 / 16 bold / mm
Optional terminal types		-
Torque setting		± 5 Nm
Weight (±4%)		5,45 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 / Pole settings



### Constant Current Discharge - Ampere @ 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	48,9	30,8	25,0	20,0	17,8	15,7	14,2	13,0	12,0	11,4	10,7	10,2	7,57	6,22	4,35	3,57	3,06	2,61	2,32	2,09	1,97	1,80	1,53	0,95
1,75	51,6	32,6	26,4	21,1	18,6	16,4	14,8	13,5	12,5	11,9	11,1	10,5	7,69	6,38	4,52	3,70	3,15	2,69	2,39	2,16	1,99	1,81	1,54	0,95
1,70	54,0	34,0	27,4	21,8	19,0	16,8	15,1	13,8	12,8	12,1	11,4	10,7	7,79	6,48	4,52	3,73	3,17	2,71	2,41	2,18	2,00	1,82	1,56	0,96
1,65	56,5	35,7	28,4	22,7	19,6	17,3	15,6	14,3	13,2	12,5	11,8	11,0	7,93	6,55	4,55	3,73	3,19	2,73	2,42	2,19	2,00	1,83	1,57	0,96
1,60	58,1	36,7	29,1	23,2	20,0	17,6	15,9	14,6	13,4	12,8	12,0	11,2	8,04	6,58	4,58	3,76	3,21	2,75	2,44	2,20	2,01	1,83	1,59	0,96

### Constant Power Discharge - Watts per cell @ 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	87,6	55,4	45,8	36,7	33,2	29,5	27,0	24,8	22,9	21,4	20,2	19,4	14,5	12,0	8,56	7,04	6,00	5,13	4,61	4,15	3,94	3,58	3,05	1,89
1,75	92,6	58,7	48,4	38,8	34,5	30,6	28,0	25,7	23,8	22,3	21,0	20,0	14,8	12,3	8,84	7,25	6,22	5,31	4,73	4,28	3,94	3,61	3,09	1,90
1,70	97,0	61,4	50,1	40,1	35,4	31,4	28,7	26,4	24,5	22,7	21,4	20,3	14,9	12,5	8,89	7,31	6,27	5,36	4,76	4,31	3,98	3,63	3,09	1,91
1,65	101	64,0	52,0	41,7	36,5	32,3	29,6	27,2	25,2	23,5	22,1	20,9	15,2	12,6	8,95	7,31	6,27	5,36	4,79	4,34	3,97	3,64	3,13	1,92
1,60	104	66,0	53,3	42,7	37,2	33,0	30,2	27,7	25,7	24,0	22,6	21,2	15,4	12,7	9,00	7,36	6,33	5,41	4,82	4,36	4,00	3,65	3,17	1,93

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