



# ES 40-12

## 12V - 40 Ah



### Electrical specifications

Nominal Voltage	12 V	
Capacity 25°C to 1,8V/c	20 hour rate	42,0 Ah
	10 hour rate	40,0 Ah
	8 hour rate	37,3 Ah
	3 hour rate	29,6 Ah
	1 hour rate	22,6 Ah
Self discharge @ 25°C	per month	2,5 - 3 %
Internal Resistance	fully charged	approx 8,5 mΩ
Maximum current @ 25°C	charging	12 A
	discharging (5sec)	400 A
Charge Voltage @25°C	Float (-18mV/°C)	2,27 - 2,29 V/Cell
Charge Voltage @25°C	Cyclic (-30mV/°C)	2,41 - 2,48 V/Cell

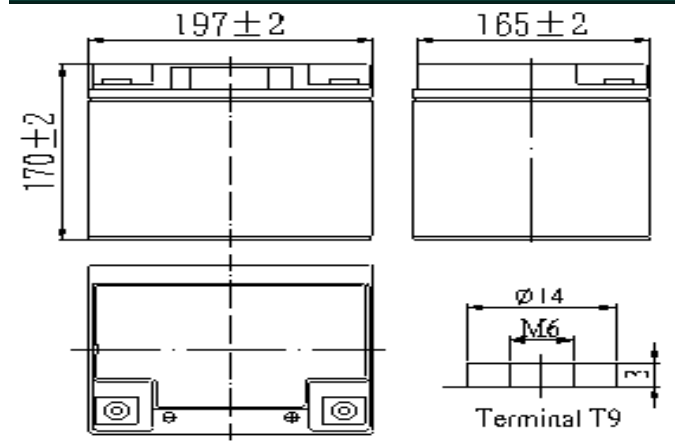
### Other specifications

Design Floating Life @ 20°C	3-5 Years	
Dimensions LxWxH (± 1mm)	197x165x170 mm	
Total height	170 mm	
Operating Temperature (storage)	-20 to +50 °C	
Separator	Absorbent Glass Mat	
Grid alloy	Calcium / Tin lead alloy	
Case and cover	ABS / VDS	
Electrolyte	Sulphuric Acid	
Terminal / Length	M6 / 14mm insert	
Optional terminal types	none	
Torque setting	5-6 Nm	
Weight	12,5 (±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 (V0 optional)
- 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	113	70,6	56,8	45,4	40,5	35,7	32,2	29,4	27,2	25,3	23,7	22,6	16,8	13,8	9,87	7,95	6,79	5,80	5,15	4,66	4,39	4,00	3,40	2,10
1,75	120	74,8	59,9	47,8	42,0	37,1	33,5	30,6	28,3	26,3	24,7	23,3	17,1	14,0	10,0	8,20	7,00	5,98	5,31	4,80	4,42	4,03	3,43	2,12
1,70	125	78,1	62,0	49,5	43,1	38,0	34,3	31,3	28,9	27,0	25,3	23,8	17,3	14,2	10,2	8,26	7,05	6,03	5,35	4,83	4,44	4,05	3,46	2,13
1,65	130	81,5	64,4	51,4	44,4	39,2	35,4	32,3	29,9	27,8	26,1	24,4	17,6	14,4	10,3	8,31	7,10	6,07	5,39	4,87	4,45	4,06	3,48	2,13
1,60	134	84,0	66,0	52,7	45,3	40,0	36,1	33,0	30,5	28,4	26,6	24,8	17,9	14,6	10,5	8,36	7,14	6,10	5,42	4,90	4,46	4,07	3,52	2,14

### Constant Power Discharge - Watts per Block 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	1215	760	614	492	440	391	358	328	304	284	267	256	192	158	114	92,8	79,6	68,0	60,8	54,8	52,0	48,0	40,8	25,2
1,75	1281	804	646	518	457	406	371	341	316	294	277	264	195	160	115	95,2	82,0	70,0	62,4	56,4	52,4	48,0	41,2	25,4
1,70	1338	838	668	535	467	414	380	348	323	301	283	269	198	162	117	96,0	82,4	70,4	62,8	56,8	52,4	48,4	41,2	25,4
1,65	1391	872	692	555	481	427	391	358	333	310	292	275	200	164	118	96,4	82,8	70,8	63,2	57,2	52,4	48,4	41,6	25,5
1,60	1431	898	708	568	490	435	398	365	339	316	297	279	203	166	120	96,8	83,2	71,2	63,6	57,6	52,4	48,4	42,0	25,5

Revision: 201509-1

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