



WING ES 65-12

WETAC ENERGY SOLUTIONS



Designlife

6-9 Years

WING BATTERIES - ES 65-12

Stationary, maintenance-free, sealed lead battery 12V – 65Ah

WING ES Batteries utilize superior cast grid plates with electrolyte absorbed in a glass fiber separator (AGM). The features of the ES range make them extremely versatile and adaptable for use in the fields of security lighting, UPS systems, IT / data centers, telecommunications applications etc.

Electrical specifications

Nominal Voltage:	12 V
Capacity 25°C to 1.8V/C (20 h):	68,2 Ah
Capacity 25°C to 1.8V/C (10 h):	65,0 Ah
Capacity 25°C to 1.8V/C (8 h):	60,5 Ah
Capacity 25°C to 1.8V/C (3 h):	48,0 Ah
Capacity 25°C to 1.8V/C (1 h):	36,7 Ah
Self discharge @ 25°C per month:	≈ 2,5 - 3%
Internal Resistance fully charged:	≈ 6 mΩ
Max. current (charging) @ 25°C:	19,5 A
Max. current (discharging) @ 25°C (5 Sec.):	650 A
Charge Voltage (Float) @ 25°C (-18mV/°C):	2,27-2,29 V/C
Charge Voltage (Cyclic) @ 25°C (-30mV/°C):	2,41-2,48 V/C

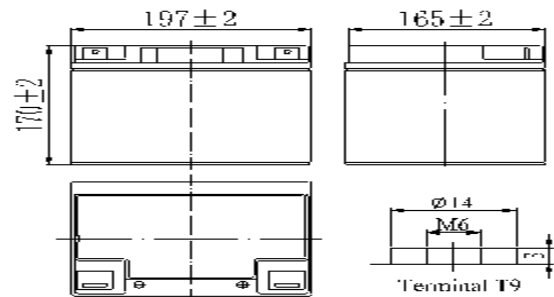
Other specifications

Float Design Life @ 25°C:	6-9 Years
Dimensions LxWxH (mm):	350x167x176
Total Height (mm):	179 mm
Operating Temperature:	-20 to 50°C
Separator:	AGM
Grid alloy:	Calcium / Tin lead alloy
Case and lid material:	ABS
Electrolyte:	Sulphuric Acid
Terminal / Lenght:	M6 insert
Optional terminal types:	none
Torque setting:	5-6 Nm
Weight:	20,8 kg (±5%)

Design features

- Life time 6-9 Years
- High rate discharge optimised
- Advanced Lead-calcium cast grid design
- Enhanced AGM separators for improved electrolyte distribution
- Capacity range: 1,2 Ah to 65 Ah
- ES 12V Batteries with VdS standard: 1,2 | 2,3 | 3,2 | 7 | 12 | 18 | 26 | 40 | 65 Ah
- Designed to comply with standards: DIN EN 60896-2, DIN 43534, BS 6290, IEC 60896-21/22, IEC 61056
- Extremely low gassing
- Low self discharge
- FAA and IATA approved non-hazardous

Dimensions



Performance – Current(A) @ 25°C

V/C	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	184	115	92,3	73,7	65,7	58,0	52,4	47,9	44,2	41,2	38,6	36,7	27,3	22,4	16,0	12,9	11,0	9,43	8,38	7,57	7,13	6,50	5,53	3,41
1,75	194	122	97,3	77,7	68,3	60,3	54,4	49,7	45,9	42,8	40,1	37,9	27,7	22,8	16,3	13,3	11,4	9,72	8,64	7,80	7,18	6,55	5,57	3,45
1,70	203	127	101	80,5	70,0	61,8	55,7	50,9	47,0	43,8	41,1	38,7	28,2	23,1	16,5	13,4	11,5	9,79	8,70	7,85	7,22	6,58	5,62	3,46
1,65	212	132	105	83,6	72,2	63,7	57,5	52,5	48,5	45,2	42,4	39,7	28,6	23,4	16,7	13,5	11,5	9,86	8,76	7,92	7,24	6,60	5,66	3,47
1,60	218	137	107	85,6	73,7	65,0	58,7	53,6	49,5	46,1	43,2	40,3	29,0	23,7	17,1	13,6	11,6	9,92	8,81	7,96	7,25	6,61	5,72	3,48

Performance – Watt per Cell (W/C) @ 25°C

V/C	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	329	206	166	133	119	105	96,8	89,0	82,5	76,8	72,3	69,5	52,1	42,8	30,8	25,1	21,5	18,5	16,4	14,8	14,0	13,0	11,0	6,83
1,75	346	217	175	140	123	109	100	92,3	85,6	79,6	75,0	71,5	52,8	43,5	31,1	25,8	22,1	19,0	16,8	15,2	14,2	13,0	11,1	6,88
1,70	362	227	180	145	126	112	102	94,3	87,5	81,5	76,6	72,8	53,5	44,0	31,6	26,0	22,3	19,0	17,0	15,3	14,2	13,1	11,1	6,88
1,65	376	236	187	150	130	115	105	97,0	90,1	83,8	79,0	74,6	54,3	44,5	32,0	26,1	22,5	19,1	17,1	15,5	14,2	13,1	11,2	6,90
1,60	387	243	191	153	132	117	107	98,8	91,8	85,5	80,3	75,6	55,0	45,0	32,6	26,1	22,5	19,3	17,1	15,6	14,2	13,1	11,3	6,92



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