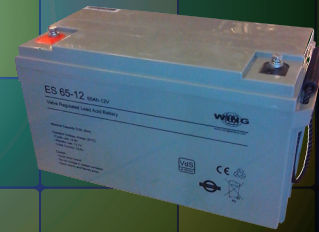




ES 65-12

12V - 65 Ah



Electrical specifications

Nominal Voltage	12 V	
Capacity 25°C to 1,8V/c	20 hour rate	68,2 Ah
	10 hour rate	65,0 Ah
	8 hour rate	60,5 Ah
	3 hour rate	48,0 Ah
	1 hour rate	36,7 Ah
Self discharge @ 25°C	per month	2,5 - 3 %
Internal Resistance	fully charged	approx 6 mΩ
Maximum current @ 25°C	charging	19,5 A
	discharging (5sec)	650 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

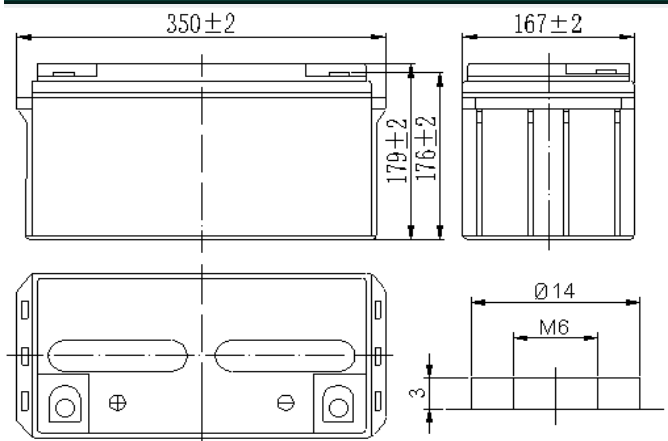
Other specifications

Design Floating Life @ 20°C	3-5 Years	
Dimensions LxWxH (± 1mm)	350x167x176 mm	
Total height	179 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	20,8 (±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	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

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	1974	1236	998	800	716	635	581	534	495	461	434	417	313	257	185	151	129	111	98,8	89,1	84,5	78,0	66,3	41,0
1,75	2081	1307	1050	842	742	659	603	554	514	478	450	429	317	261	187	155	133	114	101	91,7	85,2	78,0	67,0	41,3
1,70	2175	1362	1085	870	759	673	617	566	525	489	460	437	321	264	190	156	134	114	102	92,3	85,2	78,7	67,0	41,3
1,65	2261	1418	1125	902	782	694	635	582	541	503	474	448	326	267	192	157	135	115	103	93,0	85,2	78,7	67,6	41,4
1,60	2326	1459	1151	922	796	707	647	593	551	513	483	454	330	270	196	157	135	116	103	93,6	85,2	78,7	68,3	41,5

Revision: 201509-1

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