



BTX 12-120 LS

12V-127,4Ah



Features

- High purity lead calcium grid plates to prolong service life and enhance corrosion resistance
- Low resistance microporous glass fibre separators, AGM VRLA spill resistant design
- One way, self-regulating pressure relief valve allows gas to escape and prevents the ingress of oxygen
- High conductivity, leak resistant female terminal thread for ease of installation
- Heat sealed lid to box weld for superior integrity
- Flame arrestors for added safety

Electrical Specification

Nominal Voltage	12V
20-hr rate Capacity to 1.75V/cell at 20°C	127,4 Ah
10-hr rate Capacity to 1.75V/cell at 20°C	116 Ah
10-min rate Constant Power 1.6V/cell at 20°C	515 Watts

Dimensions

Length	410 mm
Width	176 mm
Height	224 mm
Height over terminals	224 mm
Min height required above terminals	150 mm
Weight (typical)	37,7 kg

Terminal Type

Female threaded terminal	8 mm
Torque	12,4 Nm

Internal Resistance

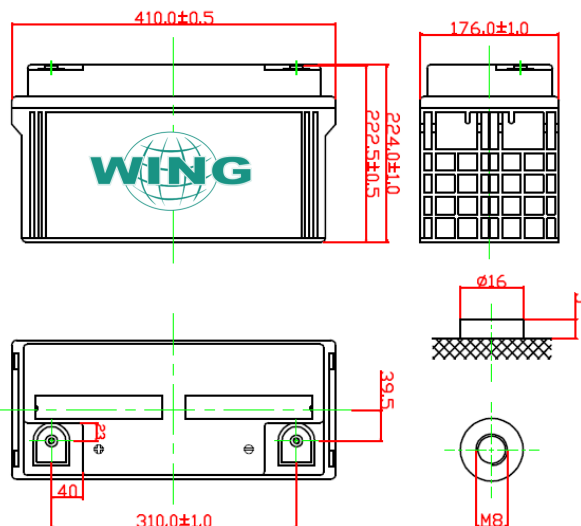
Impedance (fully charged)	4 mΩ
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Charge Voltage

Float charge voltage at 20°C	2.217~2.317 V/cell
Float charge voltage temperature correction factor (for variations from standard 20°C)	-3,3 mV/Cell/°C
Cyclic (or Boost) charge voltage at 20°C	2.425~2.475V/cell
Cyclic charge voltage temperature correction factor (for variations from standard 20°C)	-5 mV/Cell/°C
Charge Current	
Maximum charge current limit	36 A
Remote Degassing Facility	No
Degassing Tube Diameter	- mm

Operating Temperature Range

Storage (fully charged condition)	-20 °C to 60 °C
Charge	-10 °C to 60 °C
Discharge	-20 °C to 60 °C



Storage

Capacity loss in storage at 20°C / month	3 %
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Case Material

Standard option	Top Cover - UL94:V0 / ABS / HB
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Design Life

EUROBAT Classification (High Performance)	10 years
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Maximum Discharge Current

1 Second	950 A (5 s)
1 Minute	- A
Short Circuit Current	3200 A

Standards

Compliant with:
 BS 6290-4: 1997
 BS EN 60896-21: 2004
 BS EN 60896-22: 2004

Manufactured in ISO9001, ISO14001, OHSAS 18001 certified facility





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Constant Current Discharge - Amps at 20°C (In MINUTES)

V/cell	5	10	15	20	25	30	35	40	45	50	55	60	90
1,6	/	289	242	197	173	155	135	122	111	102	93,5	87	63,9
1,63	/	281	235	192	168	151	132	118	108	98,8	91,3	85	62,4
1,65	/	273	229	187	165	148	129	115	105	96	89,1	83	60,9
1,7	/	258	217	177	155	139	122	110	99,8	91,5	84,7	79	58
1,75	/	242	204	166	147	132	115	104	94,5	86,7	80,4	75,1	55,1
1,8	/	233	196	162	142	128	112	101	92,2	84,6	78,5	73,3	53,9

Constant Current Discharge - Amps at 20°C (in HOURS)

V/cell	2	3	4	5	6	7	8	9	10	12	20
1,6	51	37	29,8	24,8	21,3	18,6	16,9	15,1	13,7	11,3	6,94
1,63	49,8	36,1	29,1	24,3	20,9	18,2	16,5	14,8	13,4	11,2	6,84
1,65	48,7	35,2	28,4	23,8	20,4	17,8	16,1	14,6	13,1	11	6,75
1,7	46,4	33,5	27,1	22,6	19,4	17	15,3	14	12,6	10,6	6,56
1,75	44	31,9	25,7	21,4	18,4	16,1	14,6	13,4	12,1	10,3	6,37
1,8	43	31,1	25,1	21	17,9	15,7	14,3	12,8	11,6	9,99	6,17

Constant Power Discharge - Watts per Cell at 20°C (in MINUTES)

V/cell	5	10	15	20	25	30	35	40	45	50	55	60	90
1,6	/	515	428	350	306	274	243	219	201	185	172	161	117
1,63	/	505	420	343	301	270	239	215	199	182	169	158	116
1,65	/	496	413	338	296	266	235	213	196	180	167	156	115
1,7	/	477	398	326	286	257	227	206	190	175	162	152	112
1,75	/	457	383	314	275	248	219	199	183	169	157	147	108
1,8	/	438	368	302	265	239	212	193	178	163	152	143	105

Constant Power Discharge - Watts per Cell at 20°C (in HOURS)

V/cell	2	3	4	5	6	7	8	9	10	12	20
1,6	91,4	67,8	53,9	45,2	39,1	34,7	31,4	28,9	26,9	23,3	14,8
1,63	90,1	66,9	53,3	43,7	38,6	34,3	31	28,6	26,6	23	14,6
1,65	89	66,1	52,7	44,1	38,2	34	30,7	28,3	26,3	22,8	14,5
1,7	86,6	64,4	51,4	43,2	37,3	33,3	30,2	27,7	25,8	22,3	14,2
1,75	84,2	62,8	50,1	42,1	36,5	32,5	29,5	27,2	25,2	21,8	13,9
1,8	81,8	61,1	48,9	41,1	35,7	31,7	28,8	26,6	24,7	21,4	13,6