

ABSOLYTE® III

RELAY RACK MODULES

Section 26.13

SPECIFICATIONS

- 20 Year life expectancy
- 105 to 615 AH
- Highest energy density
- Mounts in standard telecom racks
- Recyclable to world standards
- UL recognized component



ABSOLYTE® IIP

RELAY RACK MODULES

THE WORLD LEADER IN SEALED BATTERY POWER

Proven field experience since 1983. The Absolyte IIP represents the third generation of the Absolyte product line. Without an increase in size, it offers 15% more capacity than its predecessor, the Absolyte II.

Patented MFX positive grid alloy* provides long-life. This proprietary alloy gives Absolyte IIP superior cycling performance and excellent float characteristics: 1200 cycles to 80% D.O.D. and a twenty year life in float service @ 25°C (77°F). This alloy also has low gassing characteristics and is designed to allow for deep discharge recovery.

Absorbed glass mat separators for efficient operation. The positive and negative plates are separated by a highly porous fiberglass mat which functions as the electrolyte retainer and provides the highest oxygen recombination efficiency. In addition, the low resistance of the glass mat improves high rate discharge performance.

Reduced installation and maintenance time. The Absolyte IIP cells are housed in protective, modular steel trays designed to fit either a 19" or 23" relay rack. The tray design promotes easy installation and balanced thermal management. With the sealed design, maintenance is also kept to a minimum. No water additions or scheduled equalization charges are required. Periodic visual inspections, voltage readings and connection retorquing is all that is required.

Highest reliability is assured by GNB's quality program. Cell covers are hermetically sealed using a special GNB double-sealing process. Post seals are formed by fusing the lead bushing to the post with a

robotic welder. Cells are checked by an automated, ultra-sensitive helium leak detection unit prior to the electrolyte "fill by weight" process. These steps virtually eliminate any potential for leaking cells. Finally, all cells are capacity tested prior to shipment to verify attainment of specified ratings.

APPLICATIONS

The Absolyte IIP Relay Rack batteries are ideal for numerous telecommunications applications including:

- Central Office
- PBX
- Microwave
- CEV-Hut
- Cellular Radio

ADDED FEATURES & BENEFITS

- Does not require separate battery room
- Transparent, flame retardant module cover
- Recombination efficiency greater than 99%
- Freezing tolerant
- Deep discharge recovery
- Accepts high rate charge
- Simple cell replacement capability
- Optional base plate available (recommended)

CELL SPECIFICATIONS

Container and Cover—Polypropylene is standard. Flame retardant, UL94 V-0/28% L.O.I. is optional.

Separators—Spun glass, microporous matrix.

Safety Vent—400mb (6 psi) nominal, self-resealing (patented).

Terminals—Integral solid copper core.

Positive Plate—Patented MFX grid alloy*.

Negative Plate—Lead calcium grid alloy.

Life—20 years float @25°C (77°F).

Self Discharge—0.5 to 1% per week @25°C (77°F).

Float Voltage—2.23 to 2.27 VPC (2.25 recommended) @25°C (77°F).

*U.S. Patent 4,401,730



ABSOLYTE® IIP

RELAY RACK MODULES

Absolyte IIP Relay Rack Module Weights and Dimensions

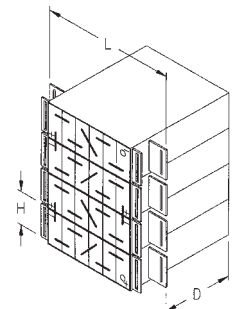
MODULE TYPE	VOLTS	NOM AH CAP (8 HR)	STACKING DIMENSIONS						UNPACKED WEIGHT		DOMESTIC PACKED WEIGHT		EXPORT PACKED WEIGHT	
			LENGTH		HEIGHT		DEPTH*		LBS	KGS	LBS	KGS	LBS	KGS
			IN	MM	IN	MM	IN	MM						
19 INCH RELAY RACK MOUNTABLE														
6-50A05-R19	12	105	20.31	516	6.49	165	15.15	385	132	60	148	68	192	88
5-50A07-R19	10	160	20.31	516	6.49	165	15.15	385	149	68	160	73	201	92
4-50A09-R19	8	210	20.31	516	6.49	165	15.15	385	149	68	160	73	203	93
3-50A11-R19	6	265	20.31	516	6.49	165	15.15	385	142	65	153	70	196	89
3-50A13-R19	6	320	20.31	516	6.49	165	15.15	385	163	74	178	81	225	103
2-50A15-R19	4	370	20.31	516	6.49	165	15.15	385	134	61	145	66	190	87
6-90A05-R19	12	175	20.31	516	6.49	165	22.48	571	214	98	227	104	278	127
5-90A07-R19	10	265	20.31	516	6.49	165	22.48	571	242	110	256	117	304	139
4-90A09-R19	8	350	20.31	516	6.49	165	22.48	571	250	114	265	121	310	141
3-90A11-R19	6	440	20.31	516	6.49	165	22.48	571	233	106	247	113	292	133
3-90A13-R19	6	530	20.31	516	6.49	165	22.48	571	266	121	283	129	337	154
2-90A15-R19	4	615	20.31	516	6.49	165	22.48	571	215	98	230	105	278	127
23 INCH RELAY RACK MOUNTABLE														
6-50A05-R23	12	105	24.31	618	6.49	165	15.15	385	132	60	148	67	192	87
6-50A07-R23	12	160	24.31	618	6.49	165	15.15	385	174	79	184	84	226	103
5-50A09-R23	10	210	24.31	618	6.49	165	15.15	385	181	83	192	87	235	107
4-50A11-R23	8	265	24.31	618	6.49	165	15.15	385	181	83	192	87	235	107
4-50A13-R23	8	320	24.31	618	6.49	165	15.15	385	208	95	223	101	270	123
3-50A15-R23	6	370	24.31	618	6.49	165	15.15	385	186	85	197	90	242	110
6-90A05-R23	12	175	24.31	618	6.49	165	22.48	571	214	97	227	103	278	126
6-90A07-R23	12	265	24.31	618	6.49	165	22.48	571	282	128	296	135	344	156
5-90A09-R23	10	350	24.31	618	6.49	165	22.48	571	301	137	316	144	361	165
4-90A11-R23	8	440	24.31	618	6.49	165	22.48	571	295	134	309	140	354	161
4-90A13-R23	8	530	24.31	618	6.49	165	22.48	571	339	154	356	162	410	186
3-90A15-R23	6	615	24.31	618	6.49	165	22.48	571	299	136	314	143	362	165

*Includes 77mm (3") additional for module cover assembly

**Absolyte IIP Performance Specifications

Amperes to 1.75 Final Volts Per Cell @25°C (77°F)

CELL TYPE	HOURS										
	24	12	10	8	7	6	5	4	3	2	1
50A											
50A05	5.1	9.3	11	13	14	16	18	22	27	37	58
50A07	7.7	14	16	19	22	24	28	33	41	56	87
50A09	10	18	22	26	29	33	37	44	55	75	116
50A11	13	23	27	33	36	41	47	56	69	94	146
50A13	15	28	33	39	44	49	56	67	83	112	175
50A15	18	32	38	46	51	57	66	78	97	131	204
90A											
90A05	8.6	15	18	21	24	27	31	37	46	62	100
90A07	12	23	27	32	36	41	47	55	69	93	151
90A09	17	31	36	43	48	54	63	74	92	124	201
90A11	21	39	46	54	60	68	78	93	115	155	251
90A13	25	47	55	65	73	82	94	111	138	186	302
90A15	30	55	64	76	85	96	110	130	162	217	352



**For additional performance data, refer to section 26.10.

NOTE: Design and/or specifications subject to change without notice. If questions arise, contact your local GNB sales representative for clarification.

G N B

ABSOLYTE® IIP

RELAY RACK MODULES

GLOBAL OPERATIONS

NORTH AMERICA

(World Headquarters)
GNB Technologies
Lombard, Illinois U.S.A.
TEL: 1.630.629.5200
FAX: 1.630.629.2635

GNB Technologies
Mississauga, Ontario Canada
TEL: 1.905.624.1107
FAX: 1.905.624.1801

EUROPE

GNB Technologies
Aalst, Belgium
TEL: 32.53.73.53.53
FAX: 32.53.77.75.56

GNB Technologies
Market Harborough, U.K.
TEL: 44.1858.434409
FAX: 44.1858.434431

MIDDLE EAST/AFRICA

GNB Technologies
Abu Dhabi, U.A.E.
TEL: 971.2.226235
FAX: 971.2.227644

JAPAN

GNB Technologies Japan
Tokyo, Japan
TEL: 81.3.5269.1061
FAX: 81.3.5269.1069

AUSTRALIA

GNB Technologies
Padstow, N.S.W. Australia
TEL: 61.2.9722.5700
FAX: 61.2.9774.2966

NEW ZEALAND

GNB Technologies
Lower Hutt, New Zealand
TEL: 64.45.684.269
FAX: 64.45.686.687

SOUTH EAST ASIA

GNB Technologies S.E. Asia
Singapore
TEL: 65.546.2866
FAX: 65.546.2966

CHINA/HONG KONG

GNB Technologies
Kowloon, Hong Kong
TEL: 852.2.956.6688
FAX: 852.2.956.2161

LATIN AMERICA

GNB Technologies
Atlanta, Georgia U.S.A.
TEL: 1.770.551.9136
FAX: 1.770.206.9650

INDIA

GNB Technologies
Bangalore, India
TEL: 011.91.80.527.4425
FAX: 011.91.80.527.4424

Total Battery Management

GNB's commitment to the environment constitutes a complete approach to the business of recycling, manufacturing and distribution that continues to set the standard in the battery industry.

For the past 75 years, GNB has led the industry's effort to recycle rather than discard used batteries. Last year alone, GNB safely processed more than 450,000 tons of lead.

Let GNB take the risk out of the disposal of your spent batteries. As part of a Total Battery Management program, GNB will pick up and transport any spent lead acid batteries to GNB-owned, EPA approved recycling centers globally.

Only companies with the strongest possible financial resources are able to make that kind of long-term commitment to recycling — and GNB has what it takes to help you.

G N B

T E C H N O L O G I E S

