

Battery Comparison Matrix

CHARACTERISTICS		Automated Business Power ABP-BT-24V/1.9AH-1	BB-490/U or MRC-490/U
Battery Voltage		24V	24V
Nominal capacity		2.0 AmpHour	1.8 AmpHour
Watt hours capacity		48 WH	43.2WH
Capacity at 25 ⁰ C (77 ⁰ F)			
	20AH rate (95mA)	2.0 AmpHour	1.9 AmpHour
	10AH rate (180mA)	1.85 AmpHour	1.8 AmpHour
	5AH rate (350mA)	1.7 AmpHour	1.75 AmpHour
	1AH rate (1300mA)	1.4 AmpHour	1.3 AmpHour
Size		5.62" x 2.56" x 1.88"	5.00" x 4.40" x 2.45"
Volume (cubic inches)		27	53.9
Weight		2.6 lbs. (1.18Kg)	3.5 lbs. (1.6Kg)
Chemistry		Sealed Lead-Acid	Sealed Lead-Acid
Battery life (charge/discharge cycles)		Up to 1000	>300
Charge time		1-4 Hours	3-4 Hours
Deep discharge recovery		Excellent	No data
Residual capacity after storage at 25 ⁰ C (77 ⁰ F)			
	After 3 months	90%	90%
	After 6 months	80%	80%
	After 12 months	60%	60%

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Operating temperature	-20 ⁰ C to +50 ⁰ C (-4 ⁰ F to +122 ⁰ F)	-20 ⁰ C to +50 ⁰ C (-4 ⁰ F to +122 ⁰ F)
Protection	Pressure relief valve	Pressure relief valve
Shock/vibration/drop test	Yes	Yes
Oven test to +70 ⁰ C (+158 ⁰ F) for 10 hours	Yes	No data
Cold proof test at -30 ⁰ C (- 22 ⁰ F) for 24 hours	Yes	No data
10 Heat cycle tests: 2 hours at -40 ⁰ C (-40 ⁰ F) and 2 hours at +65 ⁰ C (+149 ⁰ F)	Yes	No data
Short circuit test	Yes	No data
Overcharge test	Yes	No data
Case material	ABS	ABS
Color	Black	Black
NSN number	6140-01-493-8357	Yes
Available on GSA Catalogue	Yes. GSA contract number: GS-07F-0200K	Yes
Technology and Availability	New technology. Readily available. Short delivery time.	Old technology. Long delivery time.
Price	\$159	\$182

NOTE: The above information was gathered from published publications and price lists as of April 2000.