

MARATHON[®]



SPECIFICATIONS

Top Terminal Batteries

EXIDE[®]
TECHNOLOGIES
INDUSTRIAL ENERGY

From the World Leader in VRLA Battery Technology

Designed for durability in Telecommunications and Electric Utility applications, the **TOP Terminal MARATHON®** series provides high performance and reliability in long duration discharge applications. The **MARATHON®** family of batteries highlights another example of Exide Technologies Industrial Energy's extensive experience and world wide leadership in VRLA technology.

"Designed in" Quality Manufacturing

Quality manufacturing processes for the **MARATHON®** series batteries incorporate the industry's most advanced technologies including: an automated helium leak detection system, a computer controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. Each and every unit is capacity tested.

High Performance MARATHON® Series Features

- Standard: Reinforced polypropylene container and cover.
- Optional: Flame-retardant reinforced container and cover compliant with UL94 V-0.
- Integrated Flash-arrester ultrasonically welded into cover.
- Patented "Diamond Side-Wall" design to maintain structural integrity in higher operating temperatures.
- Heat sealed case-to-cover bond to ensure a leak proof seal.
- High-Compression Absorbent Glass Mat (AGM) technology for greater than 99% recombination efficiency.
- High-tin, calcium, silver, lead positive plate design for maximum service float life; 10 year design life @ 25°C (77°F).
- Heavy duty copper alloy terminals for ease of assembly and reduced maintenance.
- Reliable one-way, self-resealing safety vents.
- Multicell design for faster installation and reduced maintenance.
- Horizontal or vertical operation.
- Removable carry handles for ease of installation.

Applications

MARATHON® series batteries incorporate Exide Technologies Industrial Energy's advanced VRLA technology designed for long life and high performance in:

Telecommunications

- Distributed Power
- PCS
- Cellular
- Broadband

Electric Utility

- Switchgear Control Power
- Communications



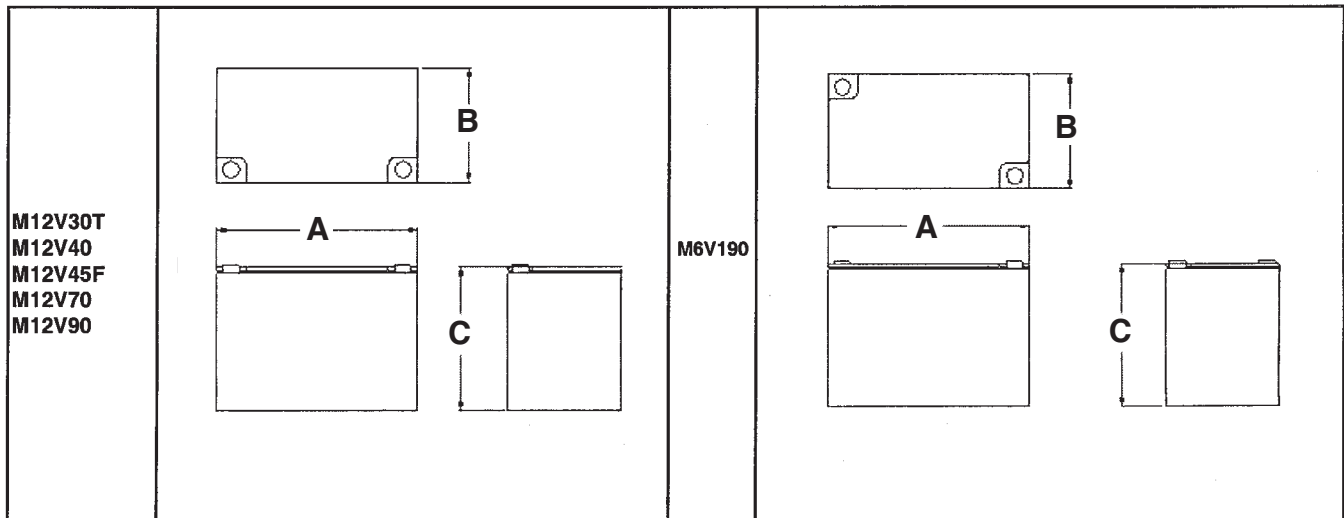
MARATHON® Specifications

Model Number [#]	Voltage	Capacity (AH)		Nominal Dimensions						Nominal Weight	
		8 Hr To 1.75 VPC @ 25°C	10 hr To 1.80 VPC @ 20°C	Inches			Millimeters			lbs.	Kg
				A	B	*C	A	B	*C		
M12V30T [%]	12	28	28	6.75	5.13	6.90	171	130	175	24	10.7
M12V40	12	40	37	7.81	6.58	7.01	198	167	178	39	17.8
M12V45F [%]	12	46	45	8.68	4.78	9.58	220	121	243	38	17.5
M12V70	12	72	71	10.25	6.85	8.80	260	174	224	61	27.8
M12V90	12	90	88	12.05	6.85	8.80	306	174	224	72	32.8
M6V190	6	190	186	12.05	6.85	8.80	306	174	224	74	33.5

* Bolt, washer, and connector typically increase height by 0.45 in. (11 mm)

Add suffix "F" to model number for flame retardant version OPTION

% Available in flame retardant version ONLY



Float Voltage & Charging

Constant Voltage charging is recommended

Recommended float voltage: 2.27 VPC @ 25°C (77°F)

Float Voltage Range: 2.25 to 2.30 VPC @ 25°C (77°F)

Equalize voltage: 2.35 VPC for 24 Hours

MARATHON® Electrical Data

Model Number	Short Circuit Current (Amps)	Internal Resistance (mOhms)
M12V30T	1576	7.7
M12V40	2341	5.3
M12V45F	2162	5.4
M12V70	3271	3.7
M12V90	3365	3.7
M6V190	6343	1.0

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

MARATHON®

MARATHON® Performance Specifications
Amperes @ 25°C (77°F)

	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.75 Final VPC	M12V30T	1.3	2.5	2.9	3.2	3.6	4.1	4.7	5.5	6.6	8.4	9.8	11.9	15.1	21.2	36.9
	M12V40(F)	1.7	3.4	4.1	4.4	5.0	5.6	6.4	7.6	9.3	11.9	14.0	16.9	21.5	30.5	51.3
	M12V45F	2.1	4.0	4.7	5.2	5.8	6.5	7.5	8.7	10.6	13.5	15.8	19.1	24.0	33.2	57.8
	M12V70(F)	3.2	6.2	7.4	8.2	9.1	10.1	11.6	13.4	16.2	20.6	24.0	28.9	36.8	51.6	90.8
	M12V90(F)	4.2	7.8	9.2	10.1	11.2	12.7	14.3	16.7	20.2	25.9	30.2	36.5	46.6	65.7	107.0
	M6V190(F)	9.1	16.6	19.5	21.4	23.7	26.7	30.6	35.9	43.7	56.0	65.6	79.5	102.0	144.9	246.0

	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.78 Final VPC	M12V30T	1.3	2.4	2.9	3.2	3.6	4.1	4.7	5.4	6.6	8.3	9.7	11.7	14.9	21.0	36.6
	M12V40(F)	1.7	3.4	4.0	4.3	4.9	5.5	6.3	7.5	9.2	11.8	13.9	16.8	21.3	30.2	50.7
	M12V45F	2.1	4.0	4.7	5.2	5.7	6.5	7.5	8.7	10.5	13.5	15.7	18.9	23.8	32.9	57.0
	M12V70(F)	3.2	6.2	7.4	8.1	9.0	10.0	11.4	13.3	16.0	20.4	23.8	28.7	36.5	51.3	90.0
	M12V90(F)	4.1	7.7	9.1	10.0	11.2	12.6	14.2	16.6	20.0	25.5	29.8	36.0	45.9	64.7	105.2
	M6V190(F)	9.0	16.5	19.4	21.2	23.6	26.5	30.3	35.6	43.3	55.5	65.0	78.8	101.1	143.5	241.6

	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.80 Final VPC	M12V30T	1.3	2.4	2.9	3.2	3.6	4.0	4.6	5.4	6.5	8.3	9.6	11.6	14.8	20.8	36.0
	M12V40(F)	1.7	3.4	4.0	4.3	4.9	5.5	6.3	7.5	9.2	11.8	13.8	16.7	21.2	30.0	50.0
	M12V45F	2.1	3.9	4.7	5.1	5.7	6.4	7.4	8.6	10.4	13.3	15.5	18.8	23.6	32.5	56.0
	M12V70(F)	3.2	6.2	7.4	8.0	8.9	9.9	11.3	13.2	15.9	20.3	23.6	28.5	36.3	51.0	89.0
	M12V90(F)	4.1	7.7	9.1	10.0	11.1	12.5	14.1	16.5	19.9	25.3	29.5	35.7	45.5	64.0	103.3
	M6V190(F)	8.9	16.4	19.2	21.1	23.4	26.3	30.1	35.3	43.0	55.0	64.3	77.9	99.9	142.0	236.5

	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.81 Final VPC	M12V30T	1.3	2.4	2.9	3.2	3.5	4.0	4.6	5.3	6.4	8.2	9.5	11.4	14.6	20.5	35.4
	M12V40(F)	1.7	3.4	4.0	4.3	4.8	5.4	6.2	7.4	9.1	11.7	13.7	16.6	21.1	29.9	49.6
	M12V45F	2.1	3.9	4.6	5.1	5.6	6.4	7.3	8.5	10.3	13.2	15.4	18.6	23.3	32.0	54.8
	M12V70(F)	3.1	6.1	7.3	8.0	8.8	9.9	11.2	13.1	15.8	20.1	23.4	28.2	35.9	50.6	87.4
	M12V90(F)	4.1	7.6	9.0	9.9	11.0	12.4	14.0	16.3	19.7	25.1	29.3	35.4	45.1	63.5	101.8
	M6V190(F)	8.8	16.2	19.0	20.9	23.2	26.1	29.9	35.1	42.6	54.5	63.6	76.9	98.5	139.5	231.0

	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.83 Final VPC	M12V30T	1.2	2.4	2.8	3.1	3.5	3.9	4.5	5.2	6.3	8.0	9.4	11.3	14.4	20.2	34.8
	M12V40(F)	1.6	3.3	3.9	4.2	4.7	5.3	6.1	7.3	9.0	11.6	13.6	16.4	20.9	29.5	48.5
	M12V45F	2.0	3.8	4.5	5.0	5.6	6.3	7.3	8.4	10.2	13.0	15.2	18.3	22.9	31.4	53.5
	M12V70(F)	3.1	6.0	7.1	7.9	8.8	9.8	11.1	12.9	15.6	19.9	23.2	27.9	35.6	50.1	85.6
	M12V90(F)	4.0	7.5	8.9	9.8	10.8	12.2	13.8	16.1	19.4	24.7	28.8	34.8	44.3	62.4	100.3
	M6V190(F)	8.6	16.0	18.8	20.7	23.0	25.9	29.6	34.8	42.2	53.7	62.7	75.8	96.8	136.5	224.3

MARATHON® Performance Specifications
Amperes @ 25°C (77°F)

1.85 Final VPC	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	1.2	2.3	2.8	3.1	3.4	3.9	4.5	5.1	6.2	7.9	9.2	11.1	14.1	19.9	34.0
	M12V40(F)	1.6	3.3	3.9	4.2	4.7	5.3	6.1	7.2	8.8	11.4	13.3	16.0	20.4	28.8	47.2
	M12V45F	2.0	3.8	4.5	4.9	5.5	6.2	7.1	8.3	10.0	12.8	14.9	18.0	22.5	30.7	52.0
	M12V70(F)	3.0	5.9	7.0	7.7	8.6	9.6	10.9	12.8	15.4	19.6	22.9	27.6	35.1	49.4	83.0
	M12V90(F)	4.0	7.4	8.7	9.6	10.7	12.0	13.6	15.8	19.1	24.3	28.3	34.2	43.6	61.3	98.0
	M6V190(F)	8.5	15.7	18.5	20.3	22.6	25.4	29.2	34.4	41.5	52.7	61.5	74.2	94.6	133.1	216.6

1.87 Final VPC	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	1.2	2.3	2.7	3.0	3.3	3.7	4.3	5.0	6.0	7.6	8.9	10.7	13.7	19.3	33.0
	M12V40(F)	1.6	3.1	3.6	4.0	4.5	5.1	5.8	6.9	8.4	10.9	12.7	15.4	19.5	27.3	44.6
	M12V45F	2.0	3.7	4.3	4.8	5.3	6.0	6.9	8.0	9.7	12.4	14.5	17.5	21.8	29.6	49.5
	M12V70(F)	3.0	5.7	6.8	7.5	8.3	9.3	10.6	12.4	14.9	18.9	22.0	26.6	33.8	47.4	78.6
	M12V90(F)	3.9	7.2	8.5	9.3	10.3	11.6	13.1	15.3	18.5	23.5	27.4	33.0	41.9	58.8	93.7
	M6V190(F)	8.2	15.2	17.9	19.7	21.8	24.6	28.2	33.1	40.0	50.8	59.2	71.3	90.7	127.3	204.3

1.90 Final VPC	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	1.1	2.2	2.6	2.8	3.1	3.6	4.1	4.7	5.7	7.2	8.4	10.2	13.0	18.3	31.0
	M12V40(F)	1.5	2.9	3.4	3.8	4.2	4.8	5.6	6.6	8.0	10.4	12.2	14.7	18.6	25.9	42.4
	M12V45F	1.9	3.5	4.1	4.5	5.0	5.7	6.5	7.6	9.3	12.0	13.9	16.7	20.7	28.0	45.9
	M12V70(F)	2.8	5.4	6.4	7.1	7.9	9.0	10.1	11.7	14.1	17.9	20.8	25.1	31.8	44.4	72.5
	M12V90(F)	3.7	6.8	8.0	8.8	9.8	11.0	12.6	14.6	17.5	22.2	25.8	31.1	39.5	55.2	87.6
	M6V190(F)	7.8	14.5	17.0	18.7	20.8	23.4	26.8	31.5	37.8	47.9	55.7	67.0	84.9	118.7	187.8

1.92 Final VPC	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	1.1	2.0	2.4	2.6	2.9	3.3	3.8	4.5	5.4	6.9	8.0	9.6	12.3	17.2	29.1
	M12V40(F)	1.4	2.8	3.2	3.6	4.0	4.5	5.2	6.2	7.6	9.8	11.5	13.9	17.6	24.4	39.8
	M12V45F	1.8	3.3	3.9	4.3	4.8	5.4	6.1	7.2	8.8	11.4	13.2	15.7	19.4	26.2	42.6
	M12V70(F)	2.7	5.1	6.1	6.7	7.4	8.4	9.5	11.1	13.3	16.8	19.5	23.5	29.7	41.4	64.6
	M12V90(F)	3.6	6.5	7.6	8.3	9.2	10.3	11.8	13.8	16.7	21.2	24.6	29.6	37.2	51.4	81.9
	M6V190(F)	7.5	13.7	16.1	17.7	19.6	22.1	25.3	29.7	36.0	45.1	52.3	62.8	79.4	110.4	146.8

1.94 Final VPC	Model Number	Time														
		24 hr	12 hr	10 hr	9 hr	8 hr	7 hr	6 hr	5 hr	4 hr	3 hr	2.5 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	1.0	1.9	2.2	2.5	2.8	3.1	3.6	4.2	5.1	6.4	7.5	9.0	11.5	16.1	26.8
	M12V40(F)	1.3	2.5	3.0	3.3	3.7	4.2	4.9	5.7	7.0	9.1	10.7	12.9	16.3	22.5	36.7
	M12V45F	1.7	3.1	3.7	4.1	4.5	5.1	5.8	6.8	8.3	10.8	12.4	14.8	18.2	24.5	39.4
	M12V70(F)	2.5	4.8	5.7	6.3	7.0	8.0	9.0	10.4	12.5	15.8	18.3	21.9	27.6	38.4	54.9
	M12V90(F)	3.3	6.1	7.1	7.8	8.7	9.7	11.1	13.0	15.8	20.2	23.5	28.2	35.1	47.8	76.4
	M6V190(F)	7.0	13.0	15.3	16.7	18.6	20.9	23.9	28.1	33.5	42.3	49.0	58.6	73.8	102.3	128.6

MARATHON® Performance Specifications
Watts per Cell @ 25°C (77°F)

	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.75 Final VPC	M12V30T	2.4	4.8	5.7	6.4	7.0	9.0	12.6	16.1	22.7	29.0	40.8	71.6
	M12V40(F)	2.9	5.5	6.6	7.2	8.1	10.6	15.4	20.1	29.2	38.0	54.6	96.5
	M12V45F	4.2	7.8	9.2	10.1	11.2	14.5	20.4	26.1	36.7	46.5	65.0	107.8
	M12V70(F)	6.7	12.6	14.9	16.4	18.3	23.2	32.3	40.8	56.8	71.8	100.0	174.0
	M12V90(F)	7.7	14.9	17.7	19.6	21.9	27.7	39.3	50.3	71.2	91.0	128.7	209.0
	M6V190(F)	17.8	33.3	39.2	43.2	48.0	62.4	90.0	112.4	155.8	197.1	274.7	465.0

	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.78 Final VPC	M12V30T	2.4	4.8	5.7	6.3	7.0	8.9	12.6	16.0	22.5	28.7	40.5	71.0
	M12V40(F)	2.8	5.5	6.5	7.2	8.1	10.5	15.3	20.0	29.1	37.8	54.3	96.0
	M12V45F	4.1	7.7	9.1	10.0	11.2	14.5	20.3	25.9	36.4	46.2	64.5	106.6
	M12V70(F)	6.7	12.6	14.8	16.3	18.2	23.0	32.1	40.6	56.5	71.5	99.5	172.0
	M12V90(F)	7.6	14.8	17.5	19.4	21.7	27.5	38.9	49.8	70.4	90.0	127.3	206.0
	M6V190(F)	17.6	33.0	38.9	42.8	47.6	61.8	89.3	111.1	154.5	195.4	272.0	456.1

	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.80 Final VPC	M12V30T	2.4	4.7	5.7	6.3	7.0	8.9	12.5	15.9	22.4	28.6	40.3	70.4
	M12V40(F)	2.8	5.5	6.5	7.2	8.0	10.5	15.3	19.9	29.0	37.6	54.0	95.1
	M12V45F	4.1	7.7	9.1	10.0	11.1	14.4	20.2	25.7	36.0	45.7	64.0	105.2
	M12V70(F)	6.7	12.5	14.8	16.2	18.1	23.0	31.9	40.4	56.2	71.0	98.9	170.0
	M12V90(F)	7.6	14.7	17.4	19.3	21.6	27.3	38.6	49.4	69.8	89.2	126.2	203.1
	M6V190(F)	17.5	32.8	38.7	42.5	47.3	61.4	88.7	110.4	153.4	193.7	269.0	447.1

	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
1.83 Final VPC	M12V30T	2.4	4.7	5.6	6.2	6.8	8.7	12.3	15.6	22.0	28.0	39.3	68.2
	M12V40(F)	2.8	5.5	6.5	7.2	8.0	10.4	15.2	19.8	28.7	37.3	53.3	93.5
	M12V45F	4.0	7.6	8.9	9.8	10.9	14.2	19.7	25.0	35.1	44.5	62.3	101.3
	M12V70(F)	6.5	12.2	14.4	15.9	17.7	22.6	31.3	39.5	55.0	69.6	96.9	164.0
	M12V90(F)	7.4	14.3	17.1	18.9	21.1	26.8	37.7	48.2	67.9	86.7	122.2	195.1
	M6V190(F)	17.2	32.1	37.8	41.6	46.2	59.9	86.2	108.5	151.0	189.2	260.0	424.4

MARATHON®

MARATHON® Performance Specifications
Watts per Cell @ 25°C (77°F)

1.85 Final VPC	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	2.4	4.6	5.5	6.1	6.8	8.6	12.1	15.4	21.7	27.6	38.8	67.2
	M12V40(F)	2.8	5.4	6.5	7.1	8.0	10.4	15.1	19.7	28.5	37.0	52.8	92.0
	M12V45F	4.0	7.4	8.8	9.7	10.8	14.0	19.4	24.6	34.5	43.7	60.9	98.7
	M12V70(F)	6.5	12.1	14.2	15.7	17.4	22.3	30.9	39.0	54.1	68.5	95.4	160.0
	M12V90(F)	7.3	14.1	16.8	18.6	20.8	26.4	37.1	47.3	66.6	84.9	119.6	190.0
	M6V190(F)	16.9	31.7	37.4	41.1	45.8	59.3	85.0	107.0	149.0	186.2	254.9	410.1

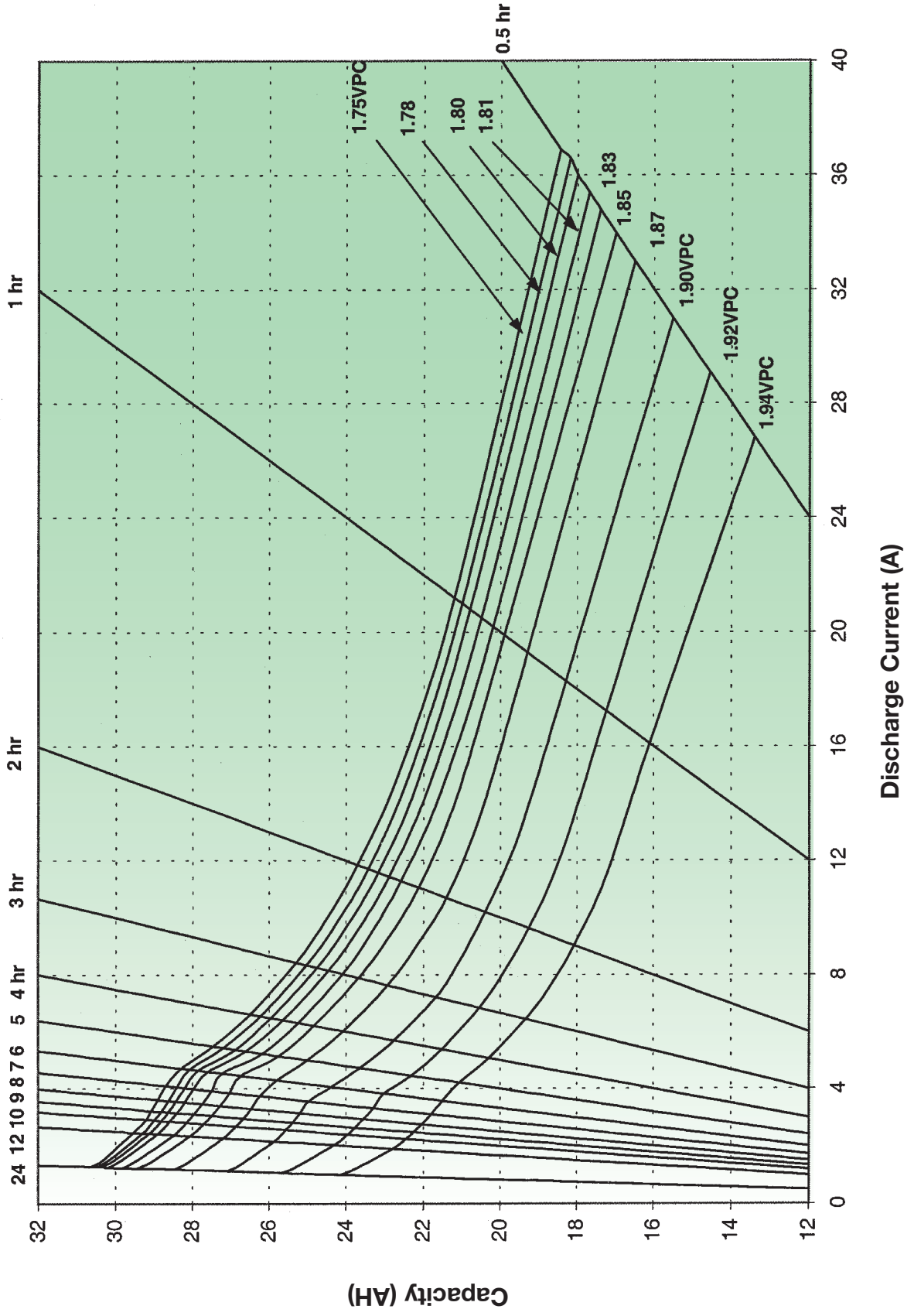
1.87 Final VPC	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	2.3	4.5	5.4	5.9	6.6	8.4	11.7	14.9	20.9	26.6	37.4	64.4
	M12V40(F)	2.8	5.4	6.4	7.1	7.9	10.3	14.9	19.4	28.1	36.3	51.4	89.3
	M12V45F	3.9	7.2	8.5	9.4	10.4	13.5	18.8	23.8	33.3	42.2	59.0	94.8
	M12V70(F)	6.3	11.7	13.8	15.2	16.9	21.5	30.0	37.9	52.9	66.9	93.3	154.9
	M12V90(F)	7.1	13.7	16.2	17.9	20.1	25.6	36.0	45.8	64.3	81.9	115.1	181.7
	M6V190(F)	16.6	30.8	36.2	39.7	44.1	56.8	81.4	105.0	145.4	180.6	245.0	388.3

1.90 Final VPC	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	2.2	4.3	5.1	5.7	6.3	8.0	11.2	14.3	20.1	25.6	36.0	61.2
	M12V40(F)	2.7	5.2	6.2	6.9	7.6	10.0	14.4	16.7	26.8	34.5	48.7	84.2
	M12V45F	3.7	6.9	8.1	9.0	10.0	12.7	17.8	22.6	31.6	40.1	56.1	89.3
	M12V70(F)	6.0	11.2	13.2	14.5	16.1	20.8	28.6	36.1	50.2	63.4	88.1	144.6
	M12V90(F)	6.8	13.0	15.4	17.0	19.0	24.4	34.2	43.5	60.9	77.4	108.4	169.9
	M6V190(F)	16.1	29.5	34.6	37.9	42.0	54.1	77.1	100.0	140.0	172.4	231.3	358.1

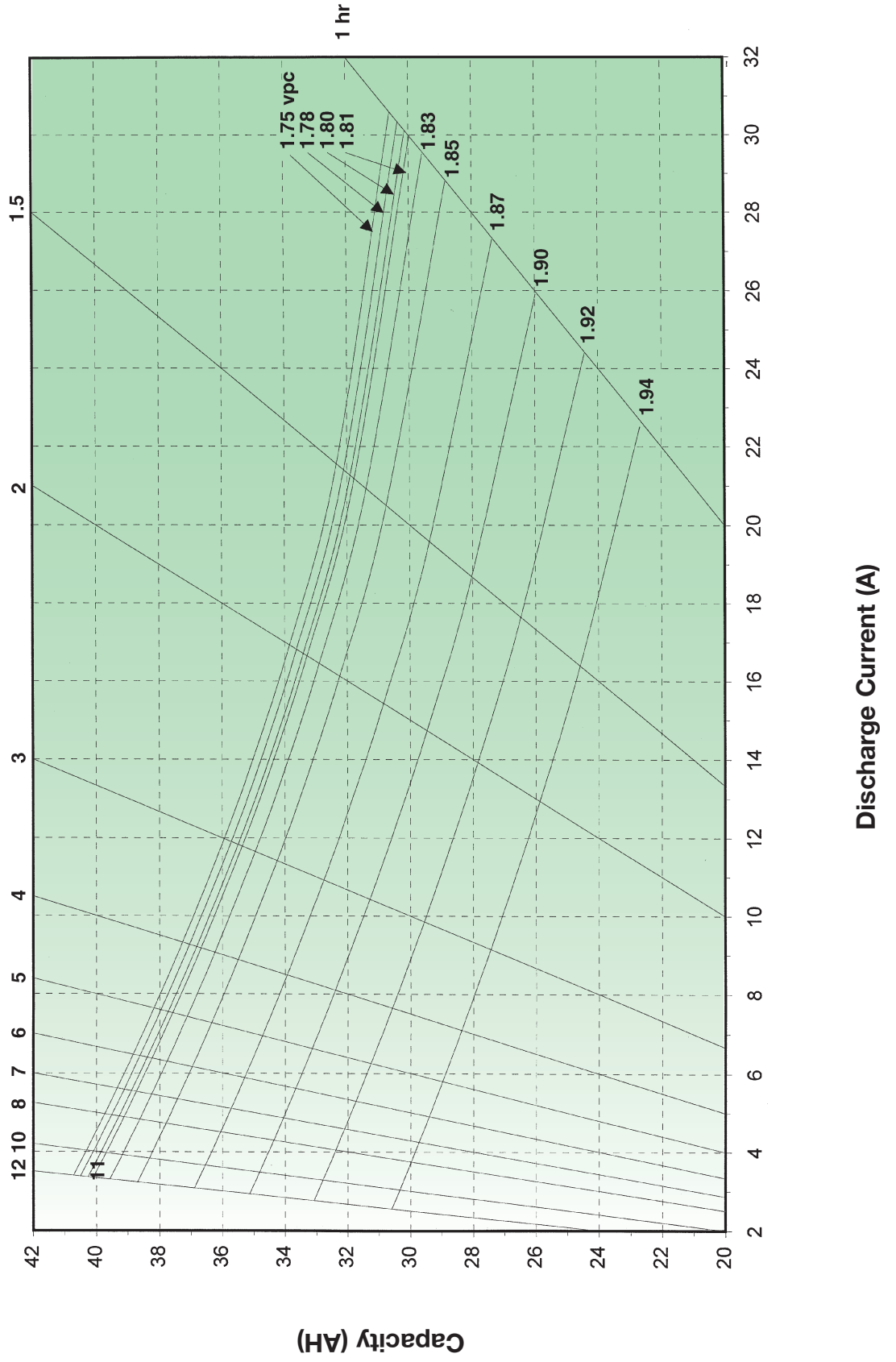
1.92 Final VPC	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	2.1	4.0	4.8	5.3	5.9	7.5	10.6	13.4	18.9	24.0	33.7	57.3
	M12V40(F)	2.6	5.0	6.0	6.6	7.3	9.5	13.8	17.8	25.5	32.7	45.9	79.3
	M12V45F	3.5	6.5	7.7	8.5	9.4	12.1	16.9	21.4	29.9	37.9	53.0	84.4
	M12V70(F)	5.7	10.6	12.5	13.7	15.2	19.7	27.1	34.2	47.4	59.7	82.7	134.7
	M12V90(F)	6.4	12.3	14.5	16.1	17.9	23.3	32.4	41.1	57.3	72.5	101.1	155.4
	M6V190(F)	15.4	28.2	33.0	36.2	40.1	51.5	73.4	95.0	132.0	162.4	217.4	296.7

1.94 Final VPC	Model Number	Time											
		24 hr	12 hr	10 hr	9 hr	8 hr	6 hr	4 hr	3 hr	2 hr	1.5 hr	1 hr	0.5 hr
	M12V30T	1.9	3.8	4.5	5.0	5.6	7.1	9.9	12.6	17.6	22.4	31.3	53.0
	M12V40(F)	2.5	4.8	5.6	6.2	6.9	9.0	12.9	16.7	23.9	30.6	42.8	73.7
	M12V45F	3.3	6.2	7.3	8.0	8.9	11.6	16.1	20.3	28.3	35.8	49.9	79.6
	M12V70(F)	5.4	10.0	11.8	12.9	14.4	18.6	25.7	32.3	44.6	56.1	77.3	125.5
	M12V90(F)	6.1	11.6	13.7	15.1	16.8	21.8	30.8	38.8	53.7	67.7	93.8	144.3
	M6V190(F)	14.6	26.8	31.4	34.5	38.2	49.2	70.3	90.5	125.2	153.4	204.1	262.8

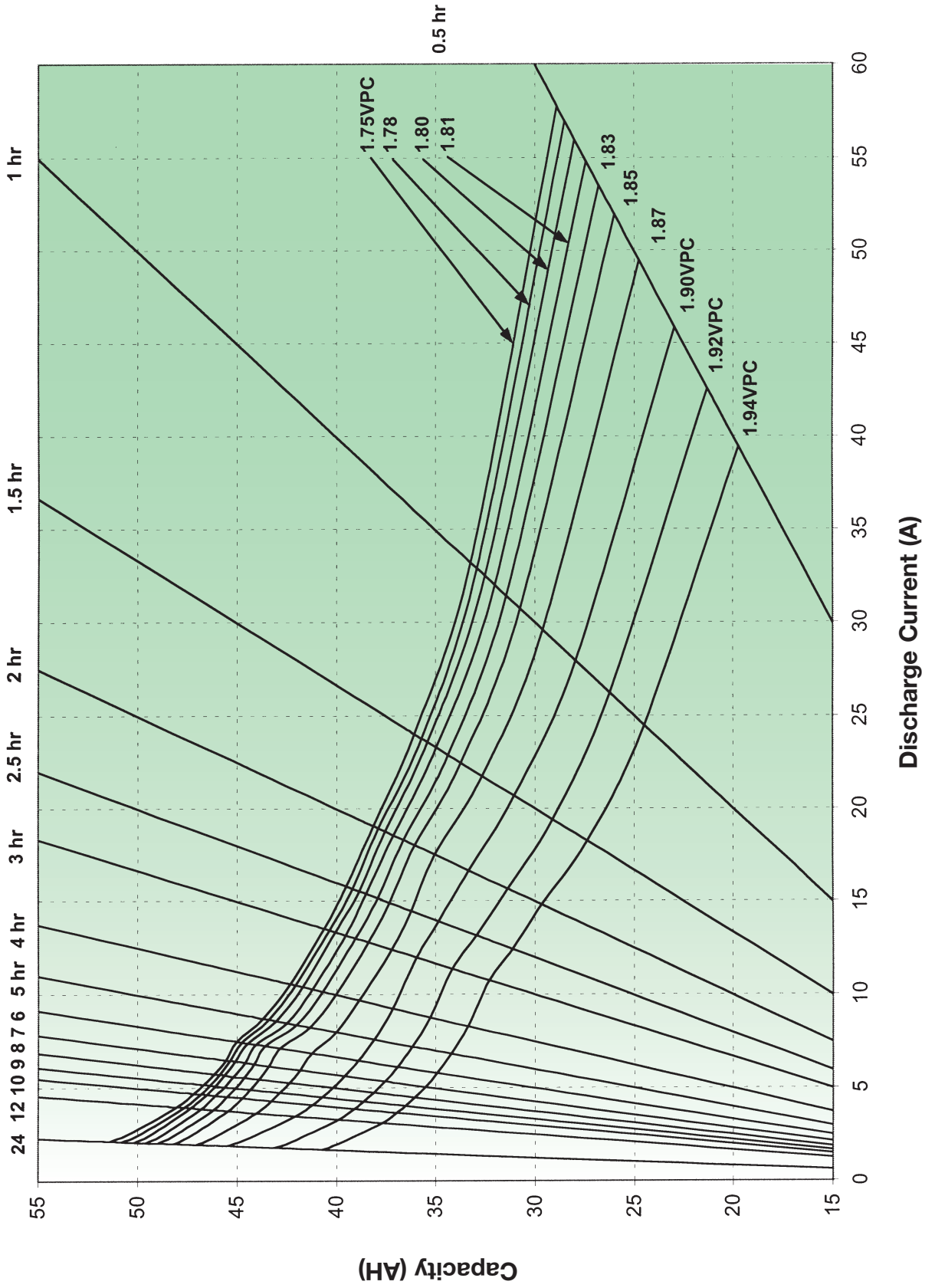
M12V30T - Performance Curves Amperes @ 25°C (77°F)



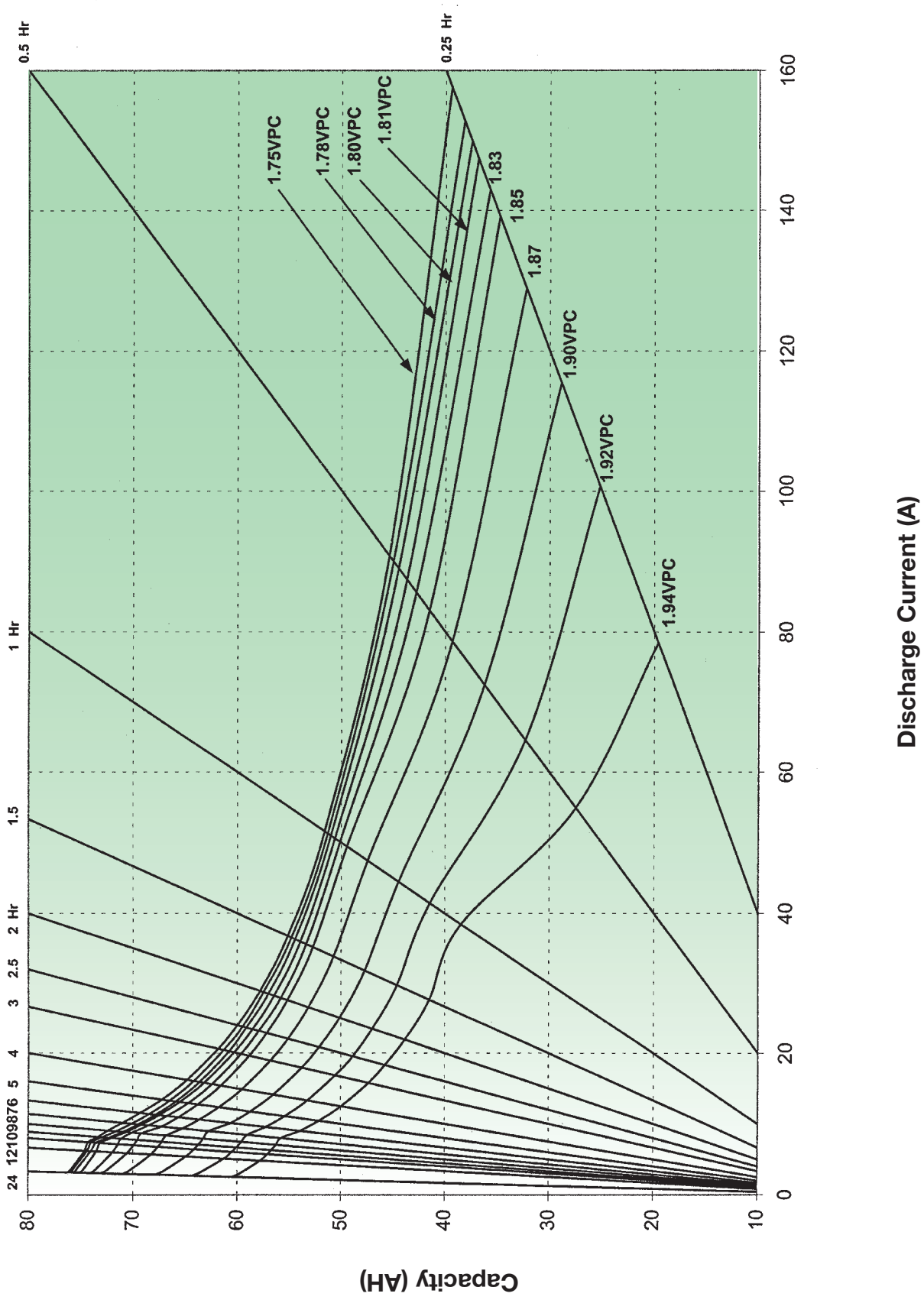
M12V40(F) - Performance Curves Amperes @ 25°C (77°F)



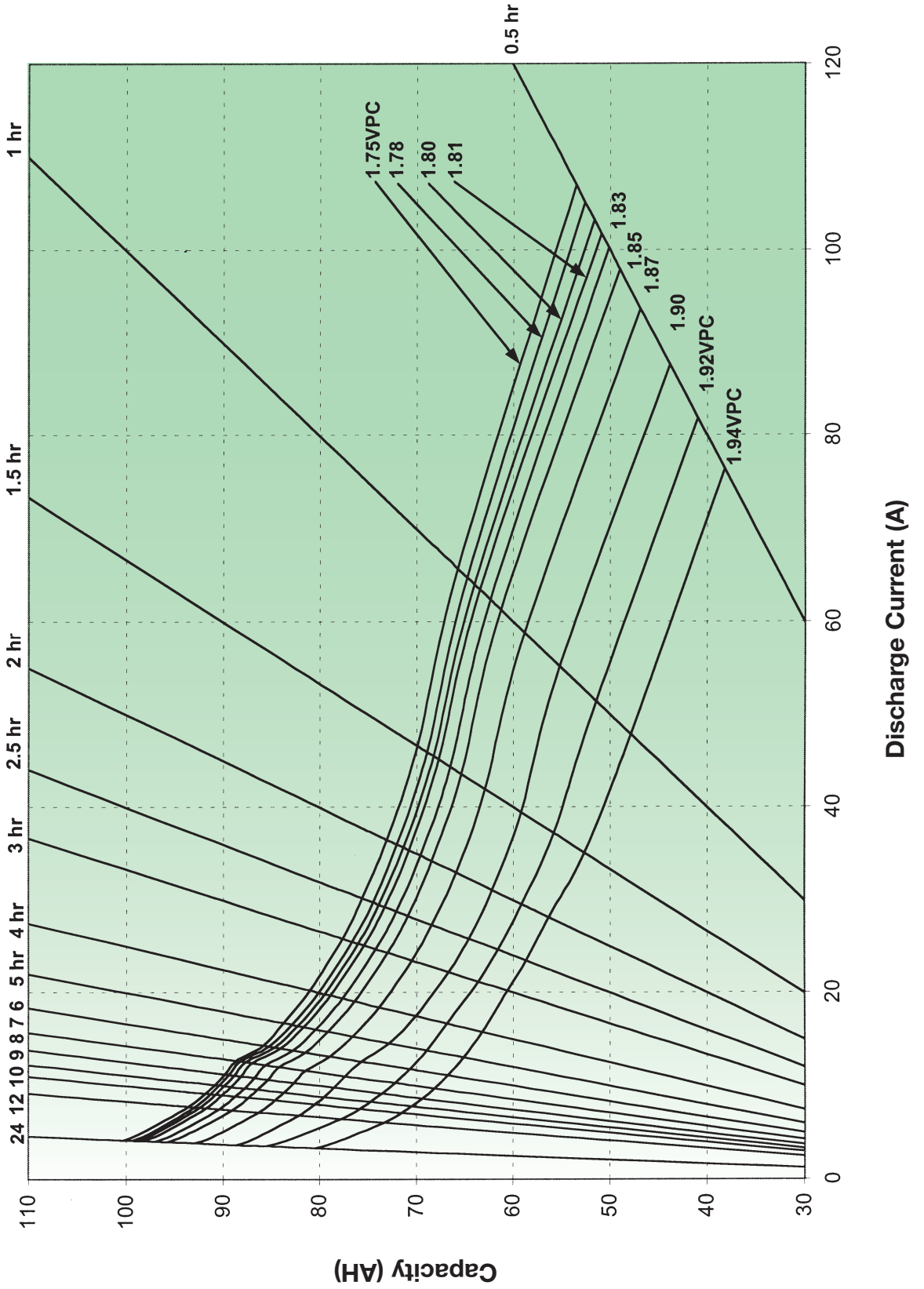
M12V45F - Performance Curves Amperes @ 25°C (77°F)



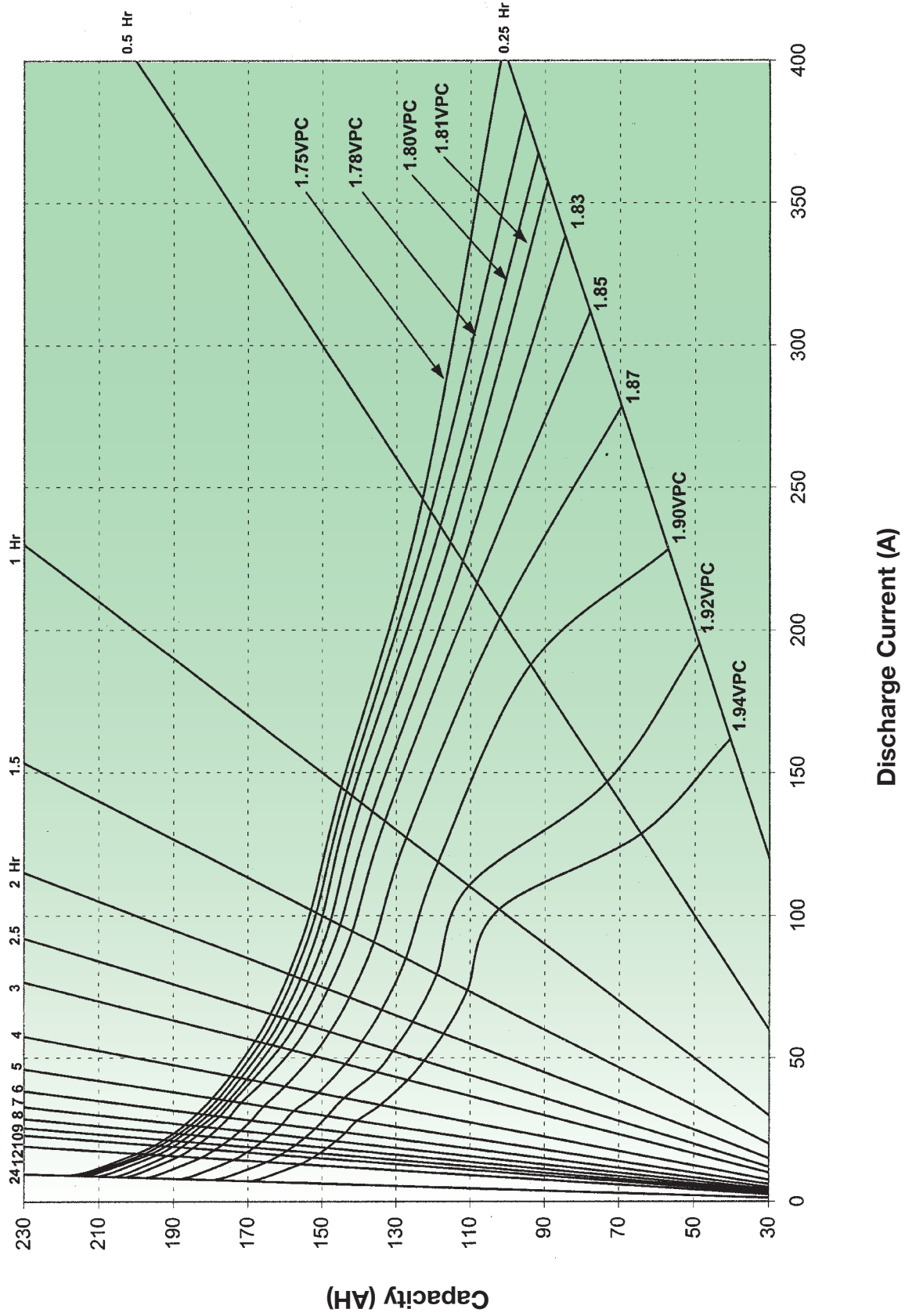
M12V70(F) - Performance Curves Amperes @ 25°C (77°F)



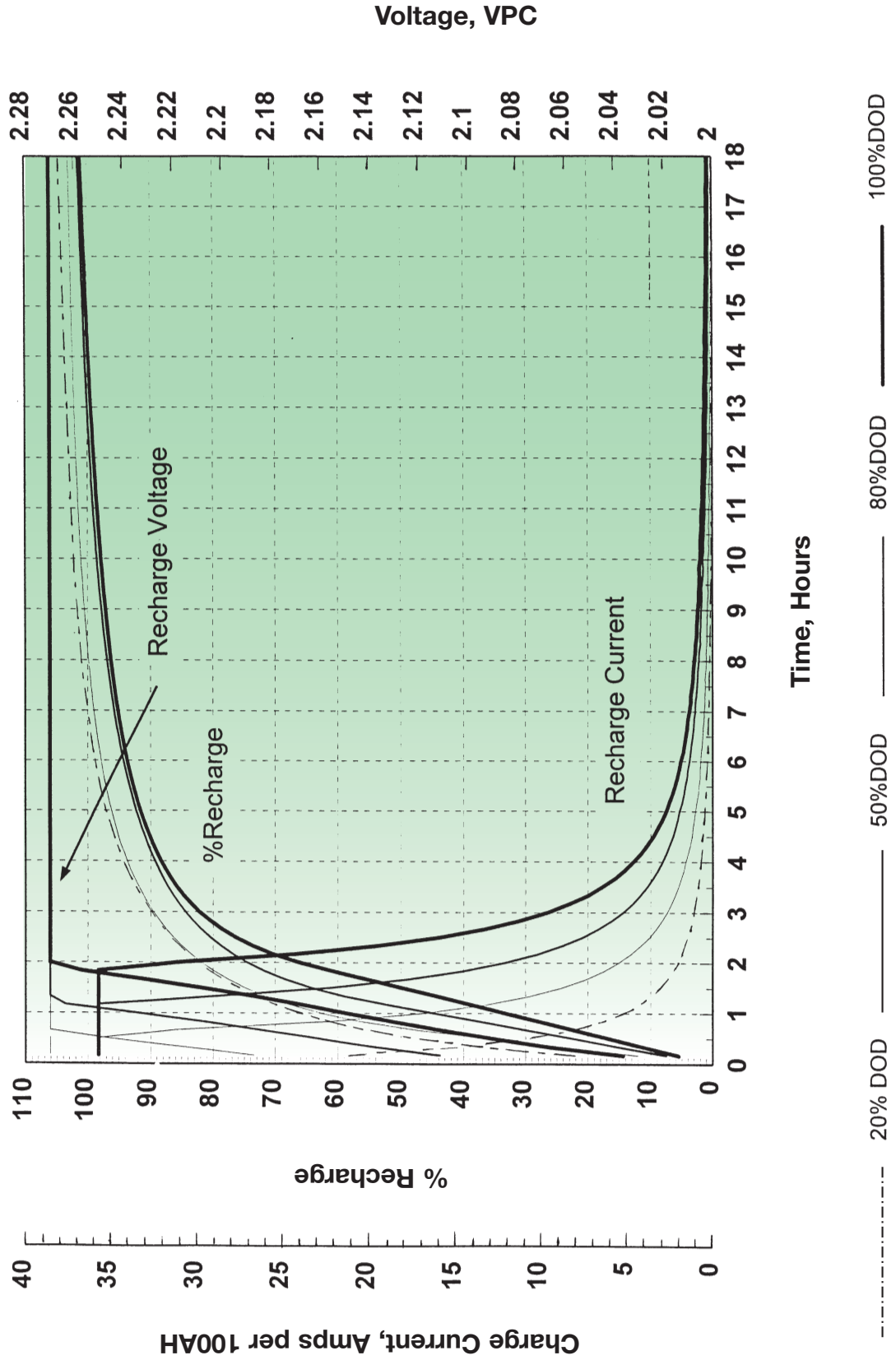
M12V90(F) - Performance Curves Amperes @ 25°C (77°F)



M6V190(F) - Performance Curves Amperes @ 25°C (77°F)



**Recharge Characterization
2.27 VPC Float @ 25°C (77°F)**



MARATHON®

Exide Technologies – The Industry Leader.



Exide Technologies Industrial Energy is a global leader in motive power battery and charger systems for electric lift trucks and other material handling equipment. Network power applications include communication/data networks, UPS systems for computers and control systems, electrical power generation and distribution systems, as well as a wide range of other industrial standby power applications. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in more than 80 countries) in sales and service, Exide Technologies Industrial Energy is best positioned to satisfy your back up power needs locally as well as all over the world.

Based on over 100 years of technological innovation the Network Power Division leads the industry with the most recognized global brands such as ABSOLYTE®, GNB FLOODED CLASSIC™, MARATHON®, ONYX™, RELAY GEL®, SONNENSCHWEIN®, and SPRINTER®. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management program, an integrated approach to manufacturing, distributing and recycling of lead acid batteries, has been developed to ensure a safe and responsible life cycle for all of its products.

Exide Technologies Industrial Energy

USA – Tel: 888.898.4462

Canada – Tel: 800.268.2698

www.exide.com



This document is printed on paper containing
10% post consumer recycled paper

SECTION 22.60 2009-09

EXIDE
TECHNOLOGIES
INDUSTRIAL ENERGY