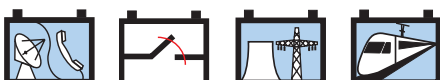


Industrial Batteries / Network Power

Marathon M FT

»AGM modular power«



Industrial Batteries

The strong range of Network Power

Energy storage solutions for critical systems that require uninterrupted power supply. GNB® Industrial Power offers powerful batteries for your individual needs.

Applications	Battery ranges																	
	Sonnenschein						Marathon		Sprinter		Absolyte	Powerfit	Classic					
	A400/A600	A400 FT	A500	A700	Solar	Rail	M FT	M/L/XL	S	P/XP	GP/GX	S200/S300	GRoE	OCSM	OPzS	Energy Bloc/OGi	Solar	Rail
Telecom 	●	●	●	●			●	●	●	●	●			●	●	●		
UPS 		●	●	●			●	●	●	●	●			●		●		
Emergency lighting 	●		●					●		●		●			●	●		
Security 	●		●	●						●		●		●	●			
Utility 	●	●		●			●	●	●		●		●	●	●	●		
Railways 	●	●	●	●		●	●	●	●		●			●		●		●
Photovoltaic 					●						●						●	
Universal 	●	●	●	●			●	●	●	●	●	●		●	●	●		

The GNB Network Power brand overview

ABSOLYTE™ **MARATHON™**

Sprinter® **Powerfit™**

- > VRLA batteries (Valve Regulated Lead Acid) in which the electrolyte is fixed in a glassmat (AGM)
- > Excellent high current capability
- > Especially economical
- > Maintenance-free (no topping up)



- > VRLA batteries (Valve Regulated Lead Acid) in which the electrolyte is fixed in a gel (dryfit technology)
- > Inventor of Gel technology
- > Highest reliability, even in non-optimal conditions
- > Particularly suitable for cyclic applications
- > Maintenance-free (no topping up)

Classic™

- > Conventional lead-acid batteries with liquid electrolyte
- > Extreme reliability, proven over decades
- > Low maintenance



Further information about service is available on page 14.

Marathon M FT

The safe storage system with long design life

Designed for durability in telecommunications and electric utility applications, the Marathon series provides high performance and reliability in medium and long duration discharge applications. The location of the terminals on the front (vs. the top) of the battery greatly facilitates the installation and maintenance of the product when placed in a cabinet enclosure or on a standard relay rack tray.

Your benefit:

- > **Front terminal design** – easy access for faster installation and maintenance
- > **Durable polypropylene casing (available as flame retardant)** – maintains structural integrity in higher operating temperatures
- > **Short recharging time** – high availability
- > **Optimal energy density** – saves floor space
- > **Completely recyclable** – low CO₂-footprint



Specifications:

- | | |
|--|---|
| <ul style="list-style-type: none"> > Maintenance-free (no topping up) during the whole service life > High-Compression Absorbent Glass Mat (AGM) technology > Nominal capacity 35.0 – 200 Ah > Design life: »12 years and longer – Long Life« according to EUROBAT Classification > Central degassing > Available as standard or flame retardant version (UL 94-V0) > Grid plates with superior lead calcium alloy for excellent corrosion resistance > Very low gassing due to internal gas recombination (99 % efficiency) | <ul style="list-style-type: none"> > Low self discharge rate, enabling extended storage capability > Designed in accordance with IEC 60896-21/-22 > Approval: Underwriter Laboratories (UL) > Trouble-free transportation of operational blocks and cells, no restriction for most rail, road, sea and air transportation (IATA, DGR clause A67) > Manufactured in Europe and USA in our ISO 9001 certified production plants |
|--|---|



12 Years and Longer – Long Life



Nominal capacity 35.0 – 200 Ah



Block battery



Grid plate



Recyclable



Valve regulated lead-acid batteries



Maintenance free (no topping up)

Marathon M FT

Technical Data

Technical characteristics and data

Type	Part number	Nom. voltage V	Nominal capacity C_{10} 1.80 Vpc 20°C Ah	Nominal capacity C_8 1.75 Vpc 25°C Ah	Capacity C_3 1.70 Vpc 20°C Ah	Capacity C_1 1.60 Vpc 20°C Ah	Length (l) mm	Width (b/w) mm	Height (h1) max. mm	Weight approx. kg	Internal resist- ance mOhm	Terminal
M6V200FT	NAMT060200HM0FA	6	200	200	167	140	361	132	250	34.0	1.70	F-M6
M12V35FT	NAMF120035HM0MA	12	35.0	35.0	30.8	27.2	280	107	189	14.0	11.0	M-M6-90°
M12V50FT	NAMF120050HM0MA	12	47.0	48.0	41.1	35.2	280	107	231	18.0	8.20	M-M6-90°
M12V60FT	NAMF120060HM0MA	12	59.0	59.0	50.2	41.3	280	107	263	23.0	7.00	M-M6-90°
M12V90FT	NAMF120090HM0FA	12	86.0	86.0	75.2	65.3	395	105	270	31.0	5.10	F-M6-90°
M12V105FT	NAMF120105HM0FA	12	100	104	86.6	71.3	511	110	238	35.8	4.90	F-M6-90°
M12V125FT	NAMF120125HM0FA	12	121	125	112	89.4	559	124	283	47.6	4.60	F-M6-90°
M12V155FT	NAMF120155HM0FA	12	150	155	131	104	559	124	283	53.8	3.80	F-M6-90°
M12V180FT	NAMF120180VM0FA	12	175	180	—	—	559	125	318	60.3	3.00	F-M6-90°

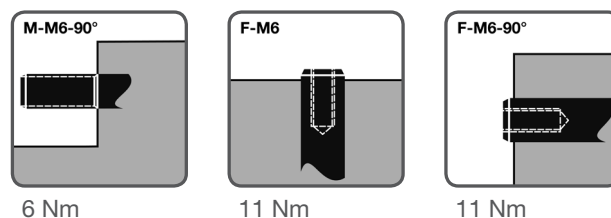
Installed length of type M6V200FT: 376 mm

Container, terminal and torque

- > **Container:**
- UL 94-HB = Polypropylene (PP)
 - UL 94-V0 = Polypropylene (PP)

Figures are also valid for UL 94-V0 version.
Change »H« to »V« in the part number. E.g.:

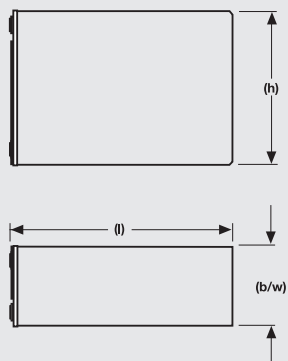
- > **Standard:** NAMF120035 **H** M0MA
> **UL 94-V0:** NAMF120035 **V** M0MA



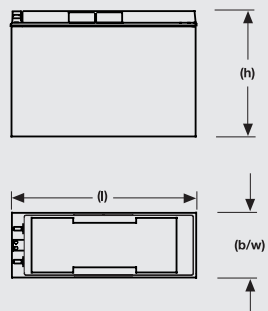
Marathon M FT

Drawings Marathon M FT

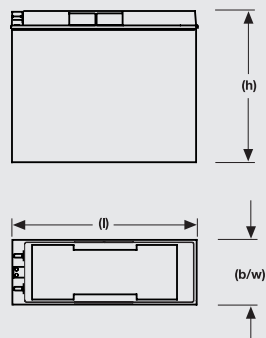
M6V200FT



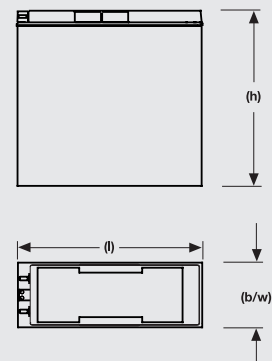
M12V35FT



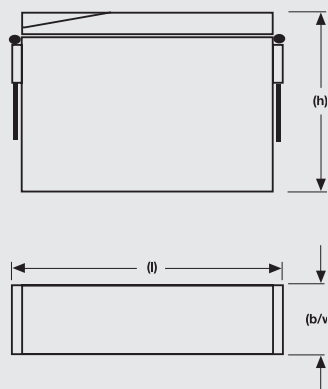
M12V50FT



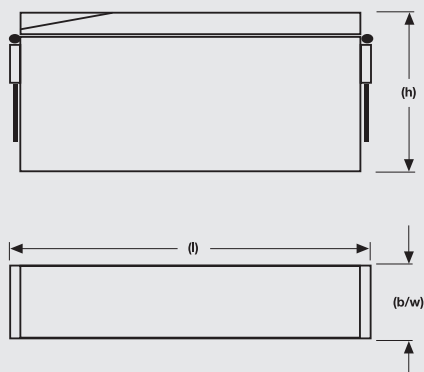
M12V60FT



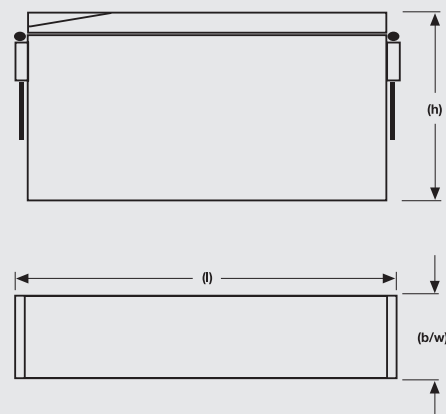
M12V90FT



M12V105FT



**M12V125FT -
M12V180FT**



Not to scale!

Marathon M FT

Constant current discharge

1.94 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	131	131	90.7	67.7	54.9	40.3	32.4	27.3	23.8	18.8	15.4	8.30	7.05
M12V35FT	NAMF120035HMOFA ¹	45.6	32.1	19.9	14.0	10.9	7.72	6.02	4.96	4.23	3.30	2.72	1.50	1.27
M12V50FT	NAMF120050HMOFA ¹	67.3	43.6	26.1	18.7	14.8	10.5	8.21	6.72	5.71	4.41	3.61	1.90	1.64
M12V60FT	NAMF120060HMOFA ¹	72.9	49.7	30.5	22.1	17.5	12.7	10.1	8.45	7.29	5.63	4.61	2.50	2.10
M12V90FT	NAMF120090HMOFA ¹	106	76.0	47.0	33.9	26.8	19.5	15.4	12.7	10.8	8.37	6.86	3.70	3.15
M12V105FT	NAMF120105HMOFA ¹	121	79.9	52.4	38.3	30.6	22.3	17.9	14.9	12.6	9.74	7.96	4.20	3.60
M12V125FT	NAMF120125HMOFA ¹	97.4	77.8	62.1	45.6	36.6	27.0	21.2	17.3	14.7	11.4	9.47	5.00	4.22
M12V155FT	NAMF120155HMOFA ¹	122	95.1	74.0	56.2	46.3	33.5	26.3	21.8	18.7	14.4	11.7	6.30	5.28

1.92 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	159	155	97.7	72.7	59.0	43.0	34.4	29.0	25.1	20.0	16.3	8.80	7.47
M12V35FT	NAMF120035HMOFA ¹	50.2	34.4	21.3	15.0	11.7	8.25	6.42	5.28	4.51	3.50	2.88	1.60	1.34
M12V50FT	NAMF120050HMOFA ¹	73.0	46.8	28.0	20.1	15.9	11.2	8.67	7.10	6.03	4.66	3.82	2.10	1.75
M12V60FT	NAMF120060HMOFA ¹	79.2	53.7	33.1	23.8	18.9	13.6	10.7	9.11	7.73	5.98	4.89	2.60	2.23
M12V90FT	NAMF120090HMOFA ¹	120	81.1	50.5	36.2	28.5	20.4	16.1	13.4	11.4	8.86	7.26	3.90	3.33
M12V105FT	NAMF120105HMOFA ¹	132	86.0	55.8	40.6	32.3	23.5	18.7	15.8	13.4	10.3	8.42	4.50	3.79
M12V125FT	NAMF120125HMOFA ¹	125	91.7	67.3	49.4	39.7	29.1	22.7	18.6	15.7	12.1	10.1	5.40	4.48
M12V155FT	NAMF120155HMOFA ¹	149	108	78.8	59.7	49.0	35.1	27.6	23.0	19.8	15.3	12.5	6.60	5.60

1.90 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	187	166	105	77.9	63.0	45.8	36.5	30.6	26.5	21.1	17.2	9.30	7.92
M12V35FT	NAMF120035HMOFA ¹	56.4	36.8	22.8	16.0	12.5	8.78	6.82	5.61	4.78	3.71	3.05	1.70	1.42
M12V50FT	NAMF120050HMOFA ¹	79.2	50.1	29.6	21.3	16.9	11.9	9.19	7.52	6.38	4.92	4.02	2.20	1.83
M12V60FT	NAMF120060HMOFA ¹	86.5	58.0	35.6	25.6	20.2	14.5	11.4	9.55	8.23	6.35	5.19	2.80	2.36
M12V90FT	NAMF120090HMOFA ¹	130	86.7	53.9	38.5	30.3	21.6	17.2	14.1	12.0	9.33	7.66	4.10	3.52
M12V105FT	NAMF120105HMOFA ¹	141	91.6	59.4	42.9	34.1	24.6	19.6	16.4	14.1	10.9	8.90	4.70	3.97
M12V125FT	NAMF120125HMOFA ¹	152	105	72.6	52.9	42.3	31.1	24.0	19.6	16.7	12.9	10.5	5.70	4.84
M12V155FT	NAMF120155HMOFA ¹	177	122	83.9	63.4	51.9	37.0	29.1	24.1	20.7	16.3	13.3	7.00	5.91

1.87 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	231	182	115	84.0	66.9	48.6	38.7	32.4	28.1	22.4	18.3	9.80	8.29
M12V35FT	NAMF120035HMOFA ¹	61.2	39.2	24.3	17.0	13.2	9.29	7.21	5.92	5.04	3.91	3.21	1.70	1.48
M12V50FT	NAMF120050HMOFA ¹	85.6	53.8	31.1	22.3	17.6	12.5	9.69	7.93	6.73	5.20	4.26	2.30	1.94
M12V60FT	NAMF120060HMOFA ¹	93.3	60.9	37.4	26.8	21.2	15.2	12.0	10.0	8.69	6.69	5.46	2.90	2.47
M12V90FT	NAMF120090HMOFA ¹	142	93.2	57.4	40.8	32.0	23.1	18.0	14.7	12.5	9.77	8.03	4.40	3.71
M12V105FT	NAMF120105HMOFA ¹	153	97.9	62.6	45.1	35.7	25.8	20.4	17.0	14.7	11.4	9.34	4.90	4.17
M12V125FT	NAMF120125HMOFA ¹	169	115	78.0	56.5	44.9	33.0	25.4	20.8	17.6	13.6	11.1	6.10	5.08
M12V155FT	NAMF120155HMOFA ¹	196	136	89.5	67.2	54.8	39.0	30.6	25.3	21.7	17.1	13.9	7.30	6.18

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant current discharge

1.85 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	259	191	122	88.3	70.1	50.6	40.1	33.5	28.9	23.0	18.9	10.1	8.54
M12V35FT	NAMF120035HMOFA ¹	64.8	40.9	25.3	17.7	13.8	9.64	7.47	6.13	5.22	4.04	3.32	1.80	1.53
M12V50FT	NAMF120050HMOFA ¹	90.2	56.3	32.2	23.1	18.2	12.9	10.0	8.20	6.97	5.38	4.41	2.40	2.01
M12V60FT	NAMF120060HMOFA ¹	98.4	62.9	38.5	27.7	21.8	15.7	12.4	10.3	8.99	6.92	5.65	3.00	2.54
M12V90FT	NAMF120090HMOFA ¹	152	97.8	59.5	42.3	33.2	23.5	18.3	15.1	12.9	10.0	8.28	4.50	3.87
M12V105FT	NAMF120105HMOFA ¹	154	101	64.7	46.5	36.9	26.5	21.0	17.5	15.1	11.7	9.59	5.20	4.32
M12V125FT	NAMF120125HMOFA ¹	175	119	79.1	57.9	46.4	34.3	26.4	21.6	18.3	14.1	11.5	6.30	5.24
M12V155FT	NAMF120155HMOFA ¹	220	150	92.8	69.6	56.8	40.3	31.6	26.1	22.4	17.6	14.3	7.60	6.35

1.83 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	276	199	126	90.8	71.9	51.7	41.0	34.2	29.5	23.3	19.2	10.2	8.66
M12V35FT	NAMF120035HMOFA ¹	66.9	41.8	25.7	18.0	14.0	9.80	7.59	6.23	5.30	4.11	3.37	1.80	1.55
M12V50FT	NAMF120050HMOFA ¹	93.0	57.9	32.6	23.3	18.4	13.1	10.2	8.38	7.11	5.48	4.48	2.40	2.03
M12V60FT	NAMF120060HMOFA ¹	101	65.0	39.2	28.2	22.2	15.9	12.6	10.5	9.15	7.03	5.74	3.00	2.57
M12V90FT	NAMF120090HMOFA ¹	159	100	61.0	43.3	34.0	23.9	18.6	15.3	13.1	10.2	8.40	4.60	3.92
M12V105FT	NAMF120105HMOFA ¹	163	104	66.3	47.6	37.7	27.1	21.4	17.9	15.4	12.0	9.79	5.20	4.40
M12V125FT	NAMF120125HMOFA ¹	186	124	81.7	59.6	47.7	35.2	27.1	22.1	18.7	14.4	11.8	6.30	5.34
M12V155FT	NAMF120155HMOFA ¹	233	157	95.8	71.5	58.1	41.2	32.3	26.7	22.9	17.9	14.5	7.70	6.50

1.80 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	297	210	132	95.1	75.1	53.8	42.5	35.3	30.4	24.0	19.9	10.5	8.90
M12V35FT	NAMF120035HMOFA ¹	70.2	43.2	26.3	18.3	14.2	10.0	7.78	6.38	5.43	4.21	3.46	1.90	1.58
M12V50FT	NAMF120050HMOFA ¹	97.3	60.1	33.5	23.8	18.7	13.2	10.4	8.64	7.36	5.66	4.68	2.40	2.05
M12V60FT	NAMF120060HMOFA ¹	106	67.3	39.6	28.5	22.5	16.3	12.9	10.8	9.39	7.21	5.87	3.10	2.62
M12V90FT	NAMF120090HMOFA ¹	170	105	63.0	44.7	35.0	24.5	19.1	15.7	13.4	10.4	8.58	4.70	3.99
M12V105FT	NAMF120105HMOFA ¹	179	109	68.3	49.0	38.7	27.8	21.9	18.3	15.7	12.2	10.0	5.30	4.48
M12V125FT	NAMF120125HMOFA ¹	204	132	85.1	61.8	49.2	36.3	27.9	22.8	19.3	14.8	12.1	6.40	5.46
M12V155FT	NAMF120155HMOFA ¹	254	167	99.8	73.8	59.6	42.2	33.1	27.4	23.4	18.4	14.9	7.90	6.64

1.78 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	309	216	134	96.5	76.3	54.6	43.0	35.7	30.7	24.2	20.0	10.6	8.95
M12V35FT	NAMF120035HMOFA ¹	71.4	43.6	26.4	18.4	14.3	10.0	7.82	6.42	5.47	4.24	3.48	1.90	1.61
M12V50FT	NAMF120050HMOFA ¹	98.2	60.6	33.8	24.0	18.8	13.3	10.5	8.70	7.40	5.70	4.68	2.40	2.06
M12V60FT	NAMF120060HMOFA ¹	107	67.9	39.6	28.6	22.7	16.4	13.0	10.8	9.47	7.26	5.91	3.10	2.64
M12V90FT	NAMF120090HMOFA ¹	174	106	63.6	45.0	35.2	24.7	19.2	15.8	13.4	10.4	8.62	4.70	4.01
M12V105FT	NAMF120105HMOFA ¹	184	112	69.3	49.7	39.2	28.1	22.2	18.5	15.9	12.4	10.1	5.30	4.53
M12V125FT	NAMF120125HMOFA ¹	214	136	86.6	62.7	49.8	36.7	28.2	23.0	19.5	15.0	12.2	6.50	5.53
M12V155FT	NAMF120155HMOFA ¹	265	172	101	74.9	60.3	42.8	33.5	27.7	23.8	18.6	15.1	7.90	6.72

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant current discharge

1.75 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	323	220	135	97.2	76.9	55.1	43.5	36.2	31.2	24.5	20.2	10.7	9.04
M12V35FT	NAMF120035HMOFA ¹	72.6	44.0	26.4	18.5	14.3	10.1	7.91	6.55	5.61	4.32	3.53	1.90	1.59
M12V50FT	NAMF120050HMOFA ¹	99.3	61.0	34.2	24.3	19.0	13.5	10.6	8.82	7.50	5.77	4.69	2.50	2.08
M12V60FT	NAMF120060HMOFA ¹	109	68.7	40.1	28.9	22.9	16.5	13.1	10.9	9.48	7.34	5.97	3.20	2.66
M12V90FT	NAMF120090HMOFA ¹	178	108	64.0	45.4	35.5	24.9	19.3	15.9	13.5	10.5	8.68	4.70	4.03
M12V105FT	NAMF120105HMOFA ¹	190	115	70.0	50.2	39.7	28.5	22.5	18.7	16.1	12.6	10.2	5.40	4.55
M12V125FT	NAMF120125HMOFA ¹	233	141	88.1	63.6	50.4	37.1	28.6	23.3	19.7	15.2	12.4	6.50	5.60
M12V155FT	NAMF120155HMOFA ¹	274	174	103	75.7	60.8	43.2	33.8	28.0	24.0	18.9	15.3	8.00	6.79

1.73 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	333	223	136	97.9	77.4	55.4	43.8	36.5	31.4	24.7	20.2	10.7	9.06
M12V35FT	NAMF120035HMOFA ¹	73.1	44.4	26.5	18.5	14.3	10.2	8.01	6.65	5.63	4.34	3.54	1.90	1.60
M12V50FT	NAMF120050HMOFA ¹	100	61.3	34.3	24.4	19.1	13.6	10.6	8.90	7.55	5.79	4.71	2.50	2.08
M12V60FT	NAMF120060HMOFA ¹	110	69.0	40.2	29.0	23.0	16.6	13.1	11.0	9.51	7.37	6.00	3.20	2.66
M12V90FT	NAMF120090HMOFA ¹	184	109	64.4	45.5	35.6	24.9	19.4	15.9	13.6	10.5	8.70	4.70	4.04
M12V105FT	NAMF120105HMOFA ¹	192	116	70.5	50.6	40.0	28.6	22.6	18.8	16.1	12.7	10.3	5.40	4.56
M12V125FT	NAMF120125HMOFA ¹	236	143	88.7	64.0	50.8	37.3	28.7	23.5	19.9	15.3	12.5	6.70	5.63
M12V155FT	NAMF120155HMOFA ¹	287	177	104	76.2	61.2	43.5	34.1	28.2	24.1	18.9	15.4	8.00	6.81

1.70 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	343	226	137	98.4	77.8	55.7	44.0	36.7	31.6	24.8	20.3	10.8	9.09
M12V35FT	NAMF120035HMOFA ¹	74.0	44.6	26.7	18.6	14.4	10.2	8.05	6.68	5.66	4.36	3.56	1.90	1.61
M12V50FT	NAMF120050HMOFA ¹	101	61.5	34.5	24.5	19.2	13.6	10.7	8.94	7.60	5.84	4.74	2.50	2.09
M12V60FT	NAMF120060HMOFA ¹	110	69.5	40.4	29.2	23.1	16.7	13.2	11.0	9.57	7.42	6.03	3.20	2.67
M12V90FT	NAMF120090HMOFA ¹	187	110	64.7	45.7	35.7	25.0	19.4	16.0	13.6	10.6	8.74	4.80	4.06
M12V105FT	NAMF120105HMOFA ¹	195	118	71.2	51.1	40.4	28.8	22.7	18.9	16.2	12.7	10.3	5.40	4.58
M12V125FT	NAMF120125HMOFA ¹	241	147	89.6	64.6	51.2	37.5	28.9	23.7	20.0	15.4	12.6	6.70	5.67
M12V155FT	NAMF120155HMOFA ¹	300	179	105	76.9	61.7	43.8	34.3	28.4	24.3	19.0	15.4	8.00	6.83

1.67 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	351	229	138	99.0	78.2	56.0	44.2	36.8	31.7	25.0	20.5	10.8	9.12
M12V35FT	NAMF120035HMOFA ¹	74.9	44.8	26.8	18.7	14.5	10.3	8.08	6.72	5.70	4.39	3.58	1.90	1.61
M12V50FT	NAMF120050HMOFA ¹	102	61.7	34.7	24.6	19.3	13.7	10.8	9.00	7.68	5.89	4.77	2.50	2.10
M12V60FT	NAMF120060HMOFA ¹	111	69.9	40.7	29.3	23.2	16.8	13.3	11.1	9.62	7.46	6.06	3.20	2.68
M12V90FT	NAMF120090HMOFA ¹	191	111	64.9	45.9	35.9	25.1	19.5	16.1	13.7	10.6	8.77	4.80	4.07
M12V105FT	NAMF120105HMOFA ¹	199	119	72.0	51.6	40.7	29.0	22.8	19.0	16.3	12.8	10.4	5.40	4.59
M12V125FT	NAMF120125HMOFA ¹	248	150	90.6	65.2	51.7	37.6	29.1	23.9	20.2	15.5	12.7	6.80	5.72
M12V155FT	NAMF120155HMOFA ¹	307	180	106	77.6	62.2	44.2	34.5	28.5	24.4	19.1	15.5	8.00	6.86

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant current discharge

1.65 Vpc – Discharge in A at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h	24 h
M6V200FT	NAMT060200HMOFA	357	231	139	99.7	78.6	56.3	44.4	36.9	31.8	25.0	20.5	10.8	9.14
M12V35FT	NAMF120035HMOFA ¹	75.5	45.0	26.9	18.7	14.5	10.3	8.11	6.75	5.72	4.40	3.59	1.90	1.62
M12V50FT	NAMF120050HMOFA ¹	103	62.0	34.9	24.7	19.3	13.8	10.9	9.08	7.73	5.92	4.80	2.50	2.11
M12V60FT	NAMF120060HMOFA ¹	111	70.4	40.8	29.4	23.3	16.8	13.3	11.1	9.65	7.49	6.09	3.20	2.69
M12V90FT	NAMF120090HMOFA ¹	193	112	65.1	46.0	36.0	25.2	19.6	16.1	13.7	10.6	8.79	4.80	4.08
M12V105FT	NAMF120105HMOFA ¹	200	120	72.6	52.0	41.0	29.2	22.9	19.0	16.3	12.9	10.4	5.40	4.60
M12V125FT	NAMF120125HMOFA ¹	250	152	91.2	65.7	52.0	37.7	29.3	24.0	20.3	15.6	12.7	6.80	5.75
M12V155FT	NAMF120155HMOFA ¹	312	182	106	78.0	62.5	44.4	34.7	28.6	24.5	19.2	15.6	8.20	6.88

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant power discharge

1.94 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	866	804	551	416	341	246	196	164	112	91.9	41.3
M12V35FT	NAMF120035HMOFA ¹	564	377	231	165	130	92.5	72.3	59.8	40.0	33.0	15.6
M12V50FT	NAMF120050HMOFA ¹	731	492	311	232	184	129	100	82.5	54.6	44.9	20.8
M12V60FT	NAMF120060HMOFA ¹	882	597	365	265	211	153	121	102	67.5	55.0	24.6
M12V90FT	NAMF120090HMOFA ¹	1184	889	562	407	324	235	187	156	103	84.5	37.9
M12V105FT	NAMF120105HMOFA ¹	1250	968	612	443	352	255	203	170	112	91.8	41.9
M12V125FT	NAMF120125HMOFA ¹	1159	1159	729	533	427	312	250	210	146	118	51.8
M12V155FT	NAMF120155HMOFA ¹	1337	1309	862	649	530	385	306	257	174	142	64.6

1.92 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1011	857	585	443	363	262	207	173	118	96.9	43.8
M12V35FT	NAMF120035HMOFA ¹	601	399	247	176	139	98.3	76.8	63.4	42.4	35.0	16.5
M12V50FT	NAMF120050HMOFA ¹	798	525	331	245	196	137	106	87.4	57.7	47.4	21.9
M12V60FT	NAMF120060HMOFA ¹	1017	644	392	283	224	162	128	107	71.8	58.5	26.1
M12V90FT	NAMF120090HMOFA ¹	1429	944	596	430	341	247	196	164	109	88.9	39.8
M12V105FT	NAMF120105HMOFA ¹	1526	1025	651	470	373	269	213	180	118	97.0	44.2
M12V125FT	NAMF120125HMOFA ¹	1237	1237	778	567	453	330	264	222	155	125	54.8
M12V155FT	NAMF120155HMOFA ¹	1626	1407	916	684	556	403	321	269	184	150	67.9

1.90 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1153	920	620	470	386	277	219	182	125	102	46.0
M12V35FT	NAMF120035HMOFA ¹	641	422	262	187	147	104	81.2	67.0	44.7	36.9	17.4
M12V50FT	NAMF120050HMOFA ¹	868	561	351	259	208	145	112	92.3	60.8	49.9	22.9
M12V60FT	NAMF120060HMOFA ¹	1114	694	420	301	238	171	135	112	76.1	61.9	27.6
M12V90FT	NAMF120090HMOFA ¹	1546	1002	630	454	359	259	205	171	114	93.4	41.6
M12V105FT	NAMF120105HMOFA ¹	1642	1085	690	497	393	283	224	187	125	102	46.4
M12V125FT	NAMF120125HMOFA ¹	1321	1321	828	601	479	348	278	233	164	133	57.8
M12V155FT	NAMF120155HMOFA ¹	1916	1517	975	718	579	419	335	282	195	159	71.2

1.87 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1340	1006	664	502	411	294	232	193	130	107	48.4
M12V35FT	NAMF120035HMOFA ¹	679	444	277	198	155	109	85.5	70.5	46.9	38.7	18.1
M12V50FT	NAMF120050HMOFA ¹	939	596	371	270	214	152	118	96.7	63.5	52.0	23.7
M12V60FT	NAMF120060HMOFA ¹	1130	740	444	318	251	180	142	118	79.8	64.9	28.9
M12V90FT	NAMF120090HMOFA ¹	1665	1061	665	477	377	271	214	178	119	97.6	43.4
M12V105FT	NAMF120105HMOFA ¹	1771	1144	722	519	410	295	233	194	130	106	48.3
M12V125FT	NAMF120125HMOFA ¹	1400	1400	873	634	504	366	291	244	168	139	60.6
M12V155FT	NAMF120155HMOFA ¹	2350	1634	1042	758	605	440	351	295	203	165	74.1

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant power discharge

1.85 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1475	1067	692	522	427	305	240	199	134	111	49.8
M12V35FT	NAMF120035HMOFA ¹	710	460	288	205	161	113	88.3	72.8	48.4	39.9	18.6
M12V50FT	NAMF120050HMOFA ¹	988	620	387	276	217	155	122	101	66.0	53.6	23.8
M12V60FT	NAMF120060HMOFA ¹	1174	786	449	324	257	185	147	122	82.3	66.9	29.7
M12V90FT	NAMF120090HMOFA ¹	1727	1098	689	493	389	279	220	183	123	100	44.6
M12V105FT	NAMF120105HMOFA ¹	1782	1185	743	533	422	303	239	199	134	109	49.6
M12V125FT	NAMF120125HMOFA ¹	2114	1454	905	655	521	377	300	251	172	144	62.4
M12V155FT	NAMF120155HMOFA ¹	2466	1717	1083	786	626	454	362	303	209	170	75.9

1.83 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1536	1110	712	535	437	311	244	203	138	112	50.6
M12V35FT	NAMF120035HMOFA ¹	730	468	292	208	163	115	89.6	73.8	49.1	40.4	18.9
M12V50FT	NAMF120050HMOFA ¹	1014	633	396	281	221	157	123	102	67.2	54.5	23.8
M12V60FT	NAMF120060HMOFA ¹	1217	804	458	330	261	188	149	124	83.6	67.9	30.1
M12V90FT	NAMF120090HMOFA ¹	1794	1125	700	501	395	282	222	185	124	101	45.2
M12V105FT	NAMF120105HMOFA ¹	1863	1216	760	545	431	309	244	203	137	112	50.3
M12V125FT	NAMF120125HMOFA ¹	2178	1489	924	669	532	385	306	256	176	148	63.4
M12V155FT	NAMF120155HMOFA ¹	2588	1776	1112	805	641	464	369	309	213	173	77.3

1.80 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1649	1182	749	558	453	322	253	209	142	116	51.9
M12V35FT	NAMF120035HMOFA ¹	762	481	299	213	167	117	91.6	75.4	50.1	41.3	19.2
M12V50FT	NAMF120050HMOFA ¹	1055	653	407	289	227	161	126	104	68.8	55.5	23.9
M12V60FT	NAMF120060HMOFA ¹	1287	831	472	339	268	192	152	127	85.5	69.5	30.7
M12V90FT	NAMF120090HMOFA ¹	1900	1167	717	512	403	288	226	188	127	103	46.0
M12V105FT	NAMF120105HMOFA ¹	1983	1249	780	558	441	316	249	207	140	114	51.2
M12V125FT	NAMF120125HMOFA ¹	2255	1532	949	686	545	394	313	262	179	151	64.8
M12V155FT	NAMF120155HMOFA ¹	2772	1853	1148	829	658	475	377	316	217	177	78.8

1.78 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1705	1212	760	565	457	325	255	211	143	117	52.2
M12V35FT	NAMF120035HMOFA ¹	773	485	301	214	168	118	92.2	76.0	50.5	41.6	19.4
M12V50FT	NAMF120050HMOFA ¹	1059	658	409	290	228	162	127	105	69.1	55.7	24.0
M12V60FT	NAMF120060HMOFA ¹	1315	840	476	341	270	193	153	127	86.0	69.9	30.9
M12V90FT	NAMF120090HMOFA ¹	1940	1183	721	514	404	290	228	189	128	104	46.3
M12V105FT	NAMF120105HMOFA ¹	2037	1272	789	565	446	319	252	210	142	115	51.7
M12V125FT	NAMF120125HMOFA ¹	2291	1552	960	694	551	398	316	264	181	153	65.6
M12V155FT	NAMF120155HMOFA ¹	2874	1892	1166	841	668	482	382	320	220	179	79.6

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant power discharge

1.75 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1798	1246	773	572	462	327	257	213	144	118	52.6
M12V35FT	NAMF120035HMOFA ¹	790	485	304	216	170	119	93.2	76.8	51.0	42.0	19.6
M12V50FT	NAMF120050HMOFA ¹	1088	668	412	293	229	163	128	106	69.6	56.1	24.0
M12V60FT	NAMF120060HMOFA ¹	1358	852	482	345	272	195	154	128	86.8	70.5	31.1
M12V90FT	NAMF120090HMOFA ¹	1980	1200	728	516	405	290	229	190	129	105	46.7
M12V105FT	NAMF120105HMOFA ¹	2116	1292	796	570	450	322	254	211	143	116	52.0
M12V125FT	NAMF120125HMOFA ¹	2307	1562	966	697	553	399	319	266	183	155	66.2
M12V155FT	NAMF120155HMOFA ¹	3014	1910	1171	847	673	484	386	322	220	180	80.3

1.73 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1839	1281	782	577	465	329	258	214	145	118	52.7
M12V35FT	NAMF120035HMOFA ¹	794	487	305	217	170	120	93.5	77.0	51.2	42.2	19.7
M12V50FT	NAMF120050HMOFA ¹	1094	671	413	293	230	163	128	106	69.8	56.2	24.0
M12V60FT	NAMF120060HMOFA ¹	1371	855	483	346	273	196	154	128	87.0	70.6	31.2
M12V90FT	NAMF120090HMOFA ¹	2016	1212	732	518	405	291	230	191	129	105	46.8
M12V105FT	NAMF120105HMOFA ¹	2126	1304	800	572	451	323	255	212	144	117	52.1
M12V125FT	NAMF120125HMOFA ¹	2324	1573	970	699	554	400	319	267	183	155	66.5
M12V155FT	NAMF120155HMOFA ¹	3062	1928	1177	853	679	488	388	324	221	180	80.7

1.70 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1906	1309	790	581	467	330	259	214	145	118	52.9
M12V35FT	NAMF120035HMOFA ¹	801	490	308	219	172	120	94.1	77.5	51.4	42.3	19.7
M12V50FT	NAMF120050HMOFA ¹	1104	674	414	294	231	164	128	106	70.1	56.4	24.1
M12V60FT	NAMF120060HMOFA ¹	1391	858	485	348	274	196	155	129	87.3	70.9	31.3
M12V90FT	NAMF120090HMOFA ¹	2038	1221	735	519	406	292	231	192	129	105	46.9
M12V105FT	NAMF120105HMOFA ¹	2142	1312	803	575	453	324	256	213	144	117	52.2
M12V125FT	NAMF120125HMOFA ¹	2340	1582	974	701	555	400	320	268	185	155	66.9
M12V155FT	NAMF120155HMOFA ¹	3137	1945	1183	857	682	491	390	326	222	180	80.9

1.67 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HMOFA	1986	1339	799	585	469	331	260	215	145	119	53.1
M12V35FT	NAMF120035HMOFA ¹	808	493	309	220	173	121	94.6	77.9	51.7	42.5	19.8
M12V50FT	NAMF120050HMOFA ¹	1113	678	416	295	232	165	129	107	70.5	56.7	24.1
M12V60FT	NAMF120060HMOFA ¹	1412	862	487	349	275	196	156	130	87.6	71.1	31.3
M12V90FT	NAMF120090HMOFA ¹	2061	1228	737	521	407	292	231	192	129	105	47.0
M12V105FT	NAMF120105HMOFA ¹	2158	1321	806	577	455	325	257	213	145	117	52.4
M12V125FT	NAMF120125HMOFA ¹	2357	1591	978	703	557	401	320	268	185	156	67.3
M12V155FT	NAMF120155HMOFA ¹	3218	1961	1189	862	686	494	392	327	222	181	81.2

¹ Discharge data are also valid for other terminals/containers.

Marathon M FT

Constant power discharge

1.65 Vpc – Discharge in W/block at 20 °C

Type	Part number	15 min	30 min	1 h	1.5 h	2 h	3 h	4 h	5 h	8 h	10 h	24 h
M6V200FT	NAMT060200HM0FA	2037	1354	805	588	471	332	260	216	146	119	53.2
M12V35FT	NAMF120035HM0MA ¹	812	495	309	221	174	122	95.0	78.1	51.8	42.6	19.8
M12V50FT	NAMF120050HM0MA ¹	1120	680	416	296	232	165	129	107	70.7	56.8	24.1
M12V60FT	NAMF120060HM0MA ¹	1424	865	489	350	276	197	156	130	87.8	71.3	31.4
M12V90FT	NAMF120090HM0FA ¹	2073	1235	739	522	408	293	231	193	130	105	47.0
M12V105FT	NAMF120105HM0FA ¹	2169	1326	809	579	456	326	257	214	145	118	52.5
M12V125FT	NAMF120125HM0FA ¹	2373	1599	981	705	557	403	321	269	186	157	67.6
M12V155FT	NAMF120155HM0FA ¹	3267	1977	1196	865	688	496	393	328	223	182	81.3

¹ Discharge data are also valid for other terminals/containers.

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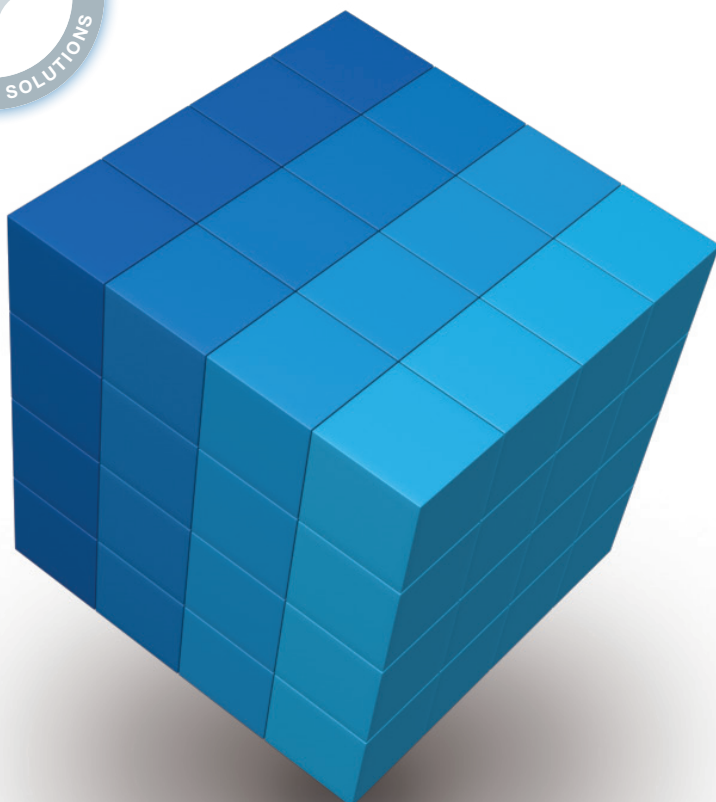
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- ✦ **Inspection Contract**
- ✦ **Maintenance Contract**
- ✦ **Lifetime Warranty Contract**
- ✦ **Full Service Contract**



»GNB Service –
individualized, professional
and all over Europe!«

Notes



Exide Technologies, with operations in more than **80 countries**, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on **over 100 years of experience** in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications.

GNB® INDUSTRIAL POWER – A division of Exide Technologies – offers an **extensive range of storage products and services**, including solutions for telecommunication systems, railway applications, mining, photovoltaic (solar energy), uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better **environment**. Its Total Battery Management programme, (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.



GNB® INDUSTRIAL POWER devises enduring energy concepts that convince with efficiency, flexibility and profitability.