

Marathon PowerCycle / M12V100PC

INDUSTRIAL BATTERIES / NETWORK POWER

The Marathon PowerCycle demonstrates exceptional performance in good grid conditions and reliable backup power in float operations. Its additional powerful features offer even more in these markets. They support challenges such as 5G deployment and ongoing Network densification, which require specialized batteries in small packages and longer life with higher temperature resistance. With its enhanced cycle life, the Marathon PowerCycle also addresses new trends such as decentralized energy solutions and the need for more sustainability.



Part Number: **NAMC120100HM0FA**

APPLICATIONS



SPECIFICATIONS

- Design life: 20 years (until 80% C₁₀ at 20°C and 1.80Vpc)
- EUROBAT 2015 Classification »> 12 years – Very Long Life«
- Extended life time at high-temperature operation: 10 years at 35°C, 7 years at 40°C
- 1500 cycles at 60% depth of discharge (C₁₀) at 20°C
- High-Compression Absorbent Glass Mat (AGM) technology
- Unique Carbon Boost® for efficient charging
- MICROCAT® Catalyst reduces float current and minimizes water loss
- Grid plates with high-purity lead, low calcium, high-tin alloy for excellent corrosion resistance
- Available as standard or flame retardant version (UL 94 V-0)
- Very low gassing due to internal gas recombination (99 % efficiency)
- Low self discharge rate, enabling extended storage capability
- Designed in accordance with IEC 60896-21/22
- Approval: UL (Underwriters Laboratories)
- Trouble-free transportation without restriction for most rail, road, sea and air transportation (IATA, DGR clause A67)
- Manufactured in Europe in our ISO 9001 certified production plants
- Central degassing



Design life
20 years



Block battery



Grid plate



Recyclable



Valve
regulated
lead-acid
batteries



Maintenance
free (no
topping up)

RECYCLE WITH EXIDE.



Exide Technologies takes pride in its commitment to a better environment. 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.



For more information please
[contact your local dealer](#)

TECHNICAL CHARACTERISTICS AND DATA

Nominal voltage	12 V
Float charge	2,29 V/C @ 20 °C
Capacity	CC 10h 1,8V/C 20°C 100Ah
Short circuit current	2347 A (IEC60896-21/22)
Internal resistance	5,1 mΩ (IEC60896-21/22)

Terminal	F-M6-90°
Terminal Torque	11 Nm
Container	UL 94 HB (Polypropylene)
Temperature range	-40°C to 55°C
Dimensions (l x b/w x h)	105 x 395 x 287 mm
Weight	33,5 kg
Origin	Castanheira, Portugal

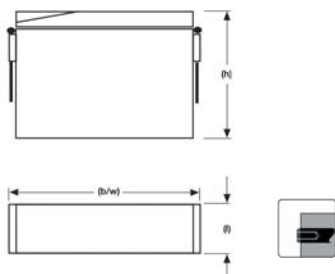
CONSTANT POWER DISCHARGE

W @ 20 °C	1 h	90 min	2 h	150 min	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h
1,940 V/C	637	446	366	311	257	199	163	139	121	109	98,3	88,8	75,5	39,1	20,3	14	10,2	8,63
1,900 V/C	751	525	432	368	304	234	191	162	141	127	114	104	88	45,5	23,7	16,3	11,9	10,1
1,850 V/C	791	553	459	391	324	250	204	173	151	136	122	111	94	48,7	25,3	17,4	12,7	10,7
1,800 V/C	810	567	470	401	332	256	209	177	154	140	126	113	96,5	49,9	25,9	17,8	13	11
1,750 V/C	829	581	480	410	339	263	214	182	159	142	128	116	98,6	51	26,5	18,2	13,3	11,3
1,700 V/C	834	584	484	414	344	267	217	185	161	143	129	117	99,3	51,4	26,7	18,4	13,4	11,3
1,650 V/C	839	587	487	418	348	270	220	187	163	145	131	118	101	52,1	27,1	18,6	13,6	11,5
1,600 V/C	844	591	490	421	353	274	223	190	165	146	131	119	101	52,4	27,2	18,7	13,7	11,6

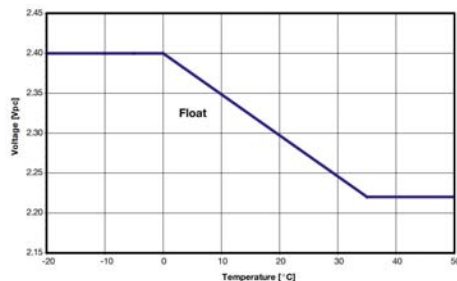
CONSTANT CURRENT DISCHARGE

A @ 20 °C	1 h	90 min	2 h	150 min	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h
1,940 V/C	48	34,6	29,8	25,2	21,6	17,1	14,2	12,1	10,5	9,41	8,62	8	6,8	3,6	1,82	1,25	0,916	0,775
1,900 V/C	56,2	40,3	33,6	28,2	24	19	15,8	13,4	11,7	10,5	9,6	8,9	7,6	4	2,02	1,39	1,02	0,861
1,850 V/C	61,4	44	36,8	30,8	26	20,6	17,2	14,6	12,7	11,3	10,4	9,6	8,2	4,3	2,17	1,49	1,09	0,926
1,800 V/C	64,8	46,4	38,7	32,3	27,1	21,4	17,7	15	13,1	11,7	10,8	10	8,5	4,5	2,27	1,53	1,11	0,95
1,750 V/C	67,2	48	39,6	33,1	27,8	21,9	18,1	15,5	13,4	12	11,1	10,3	8,77	4,64	2,35	1,57	1,14	0,979
1,700 V/C	69,1	49,4	40,7	34	28,6	22,4	18,4	15,6	13,6	12,3	11,3	10,5	8,98	4,75	2,38	1,61	1,17	1
1,650 V/C	71	50,7	41,4	34,5	29,1	22,9	18,8	16	13,9	12,5	11,5	10,7	9,12	4,82	2,43	1,65	1,19	1,02
1,600 V/C	72	51,4	41,8	34,8	29,3	23	18,9	16,1	14	12,6	11,6	10,8	9,19	4,86	2,47	1,66	1,2	1,03

Technical drawing



Float voltage vs. temperature



Marathon PowerCycle / M12V155PC

INDUSTRIAL BATTERIES / NETWORK POWER

The Marathon PowerCycle demonstrates exceptional performance in good grid conditions and reliable backup power in float operations. Its additional powerful features offer even more in these markets. They support challenges such as 5G deployment and ongoing Network densification, which require specialized batteries in small packages and longer life with higher temperature resistance. With its enhanced cycle life, the Marathon PowerCycle also addresses new trends such as decentralized energy solutions and the need for more sustainability.



Part Number: **NAMC120155HM0FA**

APPLICATIONS



SPECIFICATIONS

- Design life: 20 years (until 80% C_{10} at 20°C and 1.80Vpc)
- EUROBAT 2015 Classification »> 12 years – Very Long Life«
- Extended life time at high-temperature operation:
10 years at 35°C, 7 years at 40°C
- 1500 cycles at 60% depth of discharge (C_{10}) at 20°C
- High-Compression Absorbent Glass Mat (AGM) technology
- Unique Carbon Boost® for efficient charging
- MICROCAT® Catalyst reduces float current and minimizes water loss
- Grid plates with high-purity lead, low calcium, high-tin alloy for excellent corrosion resistance
- Available as standard or flame retardant version (UL 94 V-0)
- Very low gassing due to internal gas recombination (99 % efficiency)
- Low self discharge rate, enabling extended storage capability
- Designed in accordance with IEC 60896-21/22
- Approval: UL (Underwriters Laboratories)
- Trouble-free transportation without restriction for most rail, road, sea and air transportation (IATA, DGR clause A67)
- Manufactured in Europe in our ISO 9001 certified production plants
- Central degassing



Design life
20 years



Block battery



Grid plate



Recyclable



Valve
regulated
lead-acid
batteries



Maintenance
free (no
topping up)

RECYCLE WITH EXIDE.



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TECHNICAL CHARACTERISTICS AND DATA

Nominal voltage	12 V
Float charge	2,29 V/C @ 20 °C
Capacity	CC 10h 1,8V/C 20°C 155Ah
Short circuit current	3158 A (IEC60896-21/22)
Internal resistance	3,9 mΩ (IEC60896-21/22)

Terminal	F-M6-90°
Terminal Torque	11 Nm
Container	UL 94 HB (Polypropylene)
Temperature range	-40°C to 55°C
Dimensions (l x b/w x h)	125 x 559 x 283 mm
Weight	53,3 kg
Origin	Castanheira, Portugal

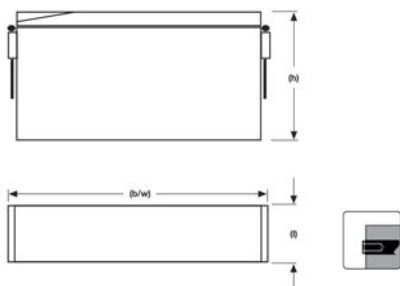
CONSTANT POWER DISCHARGE

W @ 20 °C	1 h	90 min	2 h	150 min	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h
1,940 V/C	819	617	504	422	366	291	244	205	182	165	147	135	115	61,4	31,9	21,9	16	13,6
1,900 V/C	1029	747	595	499	439	352	294	246	214	197	176	161	136	72,1	37,5	25,8	18,8	15,9
1,850 V/C	1114	805	639	534	470	373	310	262	227	205	187	172	145	77	40	27,5	20,1	17
1,800 V/C	1137	822	654	545	485	383	320	272	235	212	189	175	147	77,9	40,5	27,8	20,3	17,2
1,750 V/C	1148	832	662	553	500	390	324	275	238	213	190	175	148	78,5	40,8	28	20,5	17,3
1,700 V/C	1154	836	665	556	501	392	325	276	239	214	191	176	148	78,6	40,8	28,1	20,5	17,3
1,650 V/C	1161	840	668	557	502	394	327	277	240	215	192	177	148	78,9	41	28,2	20,6	17,4
1,600 V/C	1170	845	670	560	505	397	329	278	241	216	193	178	150	80	41,6	28,6	20,9	17,7

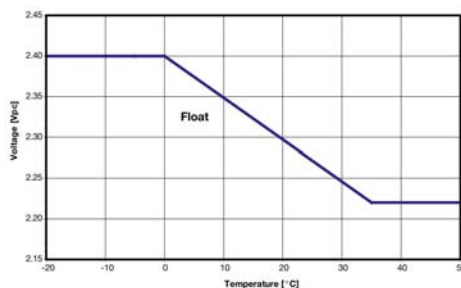
CONSTANT CURRENT DISCHARGE

A @ 20 °C	1 h	90 min	2 h	150 min	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h
1,940 V/C	71	54	44,4	37,2	32,2	25,2	20,9	17,6	15,4	13,8	12,6	11,7	10	5,3	2,69	1,85	1,36	1,15
1,900 V/C	80,5	60,9	49,9	41,5	35,5	27,9	23,1	19,8	17,4	15,6	14,3	13,3	11,2	5,9	2,99	2,06	1,51	1,28
1,850 V/C	89,2	66,9	54,6	45,2	38,7	30,3	25,1	21,6	18,8	16,9	15,5	14,4	12,1	6,4	3,25	2,23	1,64	1,39
1,800 V/C	95,8	70,9	57,2	47,4	40,5	32,2	26,9	23,3	20,4	18,1	16,7	15,5	13	6,6	3,35	2,3	1,69	1,43
1,750 V/C	99,1	72,7	58,4	48,4	41,8	33,1	27,8	24,1	20,9	18,4	16,9	15,8	13,3	6,74	3,42	2,35	1,72	1,46
1,700 V/C	101	73,9	59,2	49,2	42,7	33,4	28	24,3	21,1	18,6	17,1	15,9	13,4	6,81	3,45	2,37	1,74	1,47
1,650 V/C	103	75	60	49,7	43,2	33,8	28,2	24,5	21,3	18,9	17,3	16	13,5	6,91	3,51	2,41	1,77	1,5
1,600 V/C	105	75,5	61	50	43,5	34,1	28,4	24,6	21,4	19	17,4	16,1	13,6	6,95	3,53	2,42	1,78	1,51

Technical drawing



Float voltage vs. temperature



Marathon PowerCycle / M12V190PC

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Part Number: **NAMC120190HM0FA**

APPLICATIONS



SPECIFICATIONS

- Design life: 20 years (until 80% C₁₀ at 20°C and 1.80Vpc)
- EUROBAT 2015 Classification »> 12 years – Very Long Life«
- Extended life time at high-temperature operation: 10 years at 35°C, 7 years at 40°C
- 1500 cycles at 60% depth of discharge (C₁₀) at 20°C
- High-Compression Absorbent Glass Mat (AGM) technology
- Unique Carbon Boost® for efficient charging
- MICROCAT® Catalyst reduces float current and minimizes water loss
- Grid plates with high-purity lead, low calcium, high-tin alloy for excellent corrosion resistance
- Available as standard or flame retardant version (UL 94 V-0)
- Very low gassing due to internal gas recombination (99 % efficiency)
- Low self discharge rate, enabling extended storage capability
- Designed in accordance with IEC 60896-21/22
- Approval: UL (Underwriters Laboratories)
- Trouble-free transportation without restriction for most rail, road, sea and air transportation (IATA, DGR clause A67)
- Manufactured in Europe in our ISO 9001 certified production plants
- Central degassing



Design life
20 years



Block battery



Grid plate



Recyclable



Valve
regulated
lead-acid
batteries



Maintenance
free (no
topping up)

RECYCLE WITH EXIDE.



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TECHNICAL CHARACTERISTICS AND DATA

Nominal voltage	12 V
Float charge	2,29 V/C @ 20 °C
Capacity	CC 10h 1,8V/C 20°C 190Ah
Short circuit current	3558 A (IEC60896-21/22)
Internal resistance	3,5 mΩ (IEC60896-21/22)

Terminal	F-M6-90°
Terminal Torque	11 Nm
Container	UL 94 HB (Polypropylene)
Temperature range	-40°C to 55°C
Dimensions (l x b/w x h)	125 x 559 x 318 mm
Weight	61 kg
Origin	Castanheira, Portugal

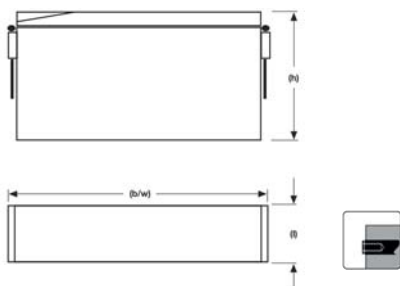
CONSTANT POWER DISCHARGE

W @ 20 °C	1 h	90 min	2 h	150 min	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h
1,940 V/C	1023	765	646	556	494	389	318	274	238	211	192	174	147	84,6	43,9	30,2	22,1	18,7
1,900 V/C	1228	950	788	674	580	460	380	326	285	253	228	206	176	96,7	50,2	34,5	25,2	21,3
1,850 V/C	1407	1048	825	708	601	475	396	339	297	264	238	216	183	102	52,9	36,4	26,6	22,5
1,800 V/C	1455	1086	858	718	611	483	402	343	301	268	242	220	186	102	53,2	36,6	26,7	22,6
1,750 V/C	1503	1125	879	728	621	492	405	345	304	271	244	222	188	103	53,8	37	27	22,8
1,700 V/C	1533	1145	885	732	626	495	407	347	306	273	246	224	189	104	54,1	37,2	27,2	23
1,650 V/C	1552	1164	892	737	630	498	410	349	307	275	247	225	190	105	54,3	37,4	27,3	23,1
1,600 V/C	1571	1183	904	742	635	501	412	351	308	276	248	226	191	105	54,6	37,5	27,4	23,2

CONSTANT CURRENT DISCHARGE

A @ 20 °C	1 h	90 min	2 h	150 min	3 h	4 h	5 h	6 h	7 h	8 h	9 h	10 h	12 h	24 h	48 h	72 h	100 h	120 h
1,940 V/C	86,4	64,8	53,6	44,6	38,6	30,6	25,5	22	19,3	17,3	15,9	14,8	12,7	6,5	3,31	2,22	1,63	1,38
1,900 V/C	108	80,6	62,4	51,4	44,6	35,3	29,3	25	21,9	19,5	17,9	16,8	14,4	7,3	3,72	2,5	1,83	1,55
1,850 V/C	117	87,8	67,2	55,7	47,3	37,4	31,1	26,6	23,5	21,1	19,5	18,3	15,6	8,15	4,15	2,79	2,05	1,73
1,800 V/C	120	89,3	70,1	58,4	49,9	39,2	32,5	27,8	24,6	22	20,4	19	16,2	8,25	4,2	2,82	2,1	1,77
1,750 V/C	125	91,1	73	61,4	52,3	41,1	33,9	28,4	25,1	22,5	20,8	19,4	16,4	8,35	4,26	2,86	2,14	1,8
1,700 V/C	129	93,9	74,9	63,4	53,8	41,5	34,3	28,8	25,3	22,7	20,9	19,5	16,6	8,45	4,3	2,89	2,16	1,81
1,650 V/C	132	96,7	76	64,1	54,1	42	34,6	29,1	25,5	22,8	21,1	19,7	16,7	8,55	4,33	2,91	2,17	1,83
1,600 V/C	134	98,1	76,8	64,3	54,2	42,2	34,8	29,2	25,6	22,9	21,2	19,8	16,8	8,6	4,35	2,92	2,18	1,84

Technical drawing



Float voltage vs. temperature

