

# 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% C<sub>10</sub> 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<sub>10</sub>) 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

<b>Nominal voltage</b>	12 V
<b>Float charge</b>	2,29 V/C @ 20 °C
<b>Capacity</b>	CP 10min 1,6V/C 20°C 3000W/Bloc CC 10h 1,8V/C 20°C 100Ah
<b>Short circuit current</b>	2347 A (IEC60896-21/22)
<b>Internal resistance</b>	5,1 mΩ (IEC60896-21/22)

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

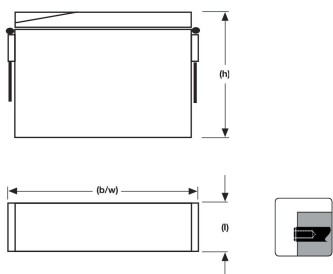
## CONSTANT POWER DISCHARGE

W @ 20 °C	1m	3m	5m	10m	15m	30m	1h	90m	2h	150m	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h	48h	72h	100h	120h
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	2310	2200	2015	1835	1670	1127	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	3255	3100	2800	2220	1880	1231	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	3800	3620	3225	2460	2011	1314	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	4145	3950	3495	2690	2153	1358	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	4590	4370	3830	2830	2250	1391	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	5171	4925	4155	2950	2310	1406	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	5460	5200	4300	3000	2345	1420	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

