Marathon PowerCycle / M12V190PC

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: NAMC120190HM0FA

APPLICATIONS

SPECIFICATIONS

- Design life: 20 years (until 80% C_{10} at 20°C and 1.80Vpc)
- EUROBAT 2022 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

VRLA

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	CP 10min 1,6V/C 20°C 4140W/Bloc 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

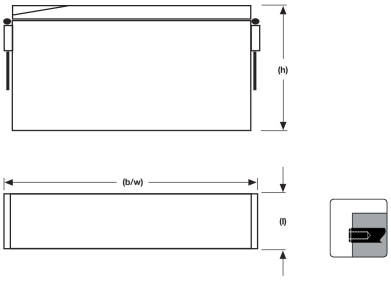
CONSTANT POWER DISCHARGE

W @ 20 °C	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							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	2940	2800	2592	2357	2104	1602	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	3841	3659	3510	2948	2552	1781	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	4470	4257	3915	3267	2780	1884	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	4988	4750	4410	3510	2904	1939	1503	1125	879	728	621	492	405	345	304	271	244	222	188	103	53,8	37	27	22,8
1,700 V/C	5576	5310	4909	3816	3060	1994	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	6144	5742	5344	4032	3167	2021	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	6415	5940	5580	4140	3285	2070	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