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# MTM

## Valve Regulated Lead-Acid STANDBY POWER BATTERIES

**CATALOGUE**



### ADVANTAGES

- √ 10+ years Design Life
- √ High-rate performance
- √ Maximum charging efficiency      √
- Easy handling
- √ Easy installation: vertical or horizontal

### MAIN APPLICATIONS

- √ UPS units
- √ Emergency power
- √ Generators starting
- √ EPS units

### STANDARD REF.

- √ EN 60896-21
- √ EN 60896-22
- √ EN 50272-2

### SPECIFICATION

- |                         |   |
|-------------------------|---|
| √ Positive plates       | Flat pasted plate with lead-tin-calcium grid alloy (radial design)              |
| √ Negative plates       | Flat pasted plate with lead-calcium grid alloy (radial design)                  |
| √ Separators            | Microporous AGM separator   |
| √ Container             | High-strength opaque ABS (option: available in Flame Retardant UL94 V0 version) |
| √ Lid                   | High-strength opaque ABS (option: available in Flame Retardant UL94 V0 version) |
| √ Electrolyte           | Absorbed sulfuric acid  |
| √ Terminal Posts        | High-conductivity terminals with threaded insert                                |
| √ Posts sealing         | Double sealing on HQ post finishing   |
| √ Vents                 | One way valve with integrated flame arrestor                                    |
| √ Plates suspension     | Bottom supported  |
| √ Inter-cell connectors | Plated copper bar + cover   |
| √ Terminal hardware     | Stainless steel + cover   |

Type	Nominal Voltage V	Actual Capacity to 1.80Vpc at 20°C Ah/10hrs	Actual Power to 1.60Vpc at 20°C W/10min	Ri mOhm	Isc kA	Dimensions (mm)			Weight Kg	Terminals
						Length	Width	Overall Height		
MTM 12-233W	12	41	233	11,690	1,090	196,0	165,0	170,0	14,0	(2x) D16 M6
MTM 12-280W	12	50	280	10,640	1,220	228,0	138,0	214,0	17,2	(2x) D16 M6
MTM 12-310W	12	60	310	9,200	1,360	350,0	167,0	179,5	22,0	(2x) D16 M6
MTM 12-320W	12	64	320	9,720	1,280	261,0	171,0	217,0	21,8	(2x) D16 M6
MTM 12-350W	12	69	350	7,200	1,760	261,0	171,0	217,0	24,0	(2x) D16 M6
MTM 12-375W	12	78	375	6,424	1,970	350,0	167,0	179,5	24,6	(2x) D16 M6
MTM 12-440W	12	83	440	5,722	2,213	306,0	171,0	217,0	26,6	(2x) D16 M6
MTM 12-470W	12	92	470	5,275	2,393	330,0	174,0	226,0	29,9	(2x) D18 M8
MTM 12-535W	12	110	535	6,380	2,000	407,0	172,0	230,5	37,2	(2x) D18 M8
MTM 12-620W	12	125	620	5,570	2,270	345,0	171,0	280,0	41,7	(2x) D18 M8
MTM 12-650W	12	140	650	4,670	2,700	483,0	171,0	227,0	45,7	(2x) D18 M8
MTM 12-830W	12	185	830	3,620	3,520	234,0	522,0	225,0	62,5	(2x) D18 M8
MTM 12-1000W	12	231	1000	2,760	4,650	271,0	534,0	236,0	77,2	(2x) D18 M8

DISCHARGE CURRENT (A) to 1.80 Vpc at 20°C

Type	Minutes						Hours														
	1	5	10	15	20	30	1	2	3	5	6	8	10	12	20	24	48	72	100	120	240
MTM 12-233W	169,0	119,3	92,2	74,4	63,3	48,5	29,3	16,5	11,3	7,5	6,4	5,0	4,1	3,55	2,23	1,90	0,96	0,65	0,47	0,40	0,21
MTM 12-280W	211,4	145,2	104,0	86,2	73,3	55,0	32,5	19,0	13,6	9,0	7,8	6,1	5,0	4,39	2,72	2,40	1,16	0,79	0,59	0,49	0,25
MTM 12-310W	239,9	172,8	130,6	106,8	89,4	67,6	38,9	22,7	15,8	10,5	9,1	7,1	6,0	5,08	3,22	2,72	1,39	0,93	0,70	0,58	0,30
MTM 12-320W	247,5	185,2	134,0	113,1	95,7	72,5	42,1	24,9	17,5	11,5	10,2	8,3	6,4	5,80	3,47	2,95	1,50	1,00	0,75	0,63	0,32
MTM 12-350W	285,4	196,8	145,7	121,5	102,6	77,3	45,6	26,7	18,7	12,4	11,1	8,9	6,9	6,40	3,71	3,16	1,60	1,07	0,80	0,67	0,35
MTM 12-375W	305,7	212,6	161,7	135,2	112,5	85,0	50,5	28,1	20,5	14,1	11,8	9,3	7,8	6,45	4,11	3,38	1,78	1,19	0,89	0,75	0,38
MTM 12-440W	315,0	200,0	166,9	141,0	117,0	85,0	52,0	30,7	21,5	14,7	12,6	10,0	8,3	7,11	4,46	3,82	1,93	1,29	0,96	0,81	0,41
MTM 12-470W	332,5	225,3	179,1	148,8	126,7	95,0	57,6	33,6	23,9	15,8	13,6	10,8	9,2	7,69	4,70	4,00	2,03	1,36	1,02	0,85	0,44
MTM 12-535W	372,0	306,3	231,5	181,2	156,2	124,2	72,0	43,7	30,0	19,9	17,5	13,8	11,0	9,76	5,94	5,05	2,56	1,72	1,29	1,08	0,55
MTM 12-620W	442,5	332,7	259,3	208,2	176,7	135,4	81,0	47,2	33,3	21,8	18,9	15,1	12,5	10,83	6,68	5,74	2,89	1,93	1,45	1,21	0,62
MTM 12-650W	525,0	390,0	289,0	232,0	196,0	146,0	89,0	52,4	36,9	24,5	21,2	17,0	14,0	12,00	7,43	6,31	3,20	2,15	1,61	1,35	0,69
MTM 12-830W	700,0	490,0	374,0	320,0	273,0	206,0	123,0	71,8	50,0	33,0	29,0	23,1	18,5	16,16	9,90	8,42	4,33	2,94	2,14	1,80	0,91
MTM 12-1000W	787,5	576,0	469,0	373,0	311,0	240,0	149,0	86,5	61,4	41,0	35,3	27,6	23,1	19,79	12,38	10,52	5,33	3,58	2,63	2,23	1,14

DISCHARGE POWER (Wpc) to 1.60 Vpc at 20°C

Type	Minutes						Hours														
	1	2	10	15	20	30	1	2	3	5	6	8	10	12	20	24	48	72	100	120	240
MTM 12-233W	467,1	288,9	233,0	178,0	142,0	103,4	59,9	35,4	24,0	16,2	13,8	10,6	8,7	7,40	4,51	3,82	1,94	1,32	0,98	0,83	0,43
MTM 12-280W	522,5	355,2	280,0	210,6	168,0	123,0	70,0	40,3	28,3	18,6	15,8	12,3	10,1	8,69	5,38	4,55	2,33	1,58	1,16	0,98	0,50
MTM 12-310W	600,3	393,5	310,0	249,5	194,7	141,5	82,1	45,8	32,7	21,3	18,4	14,3	11,8	10,03	6,23	5,33	2,69	1,87	1,37	1,16	0,59
MTM 12-320W	646,5	399,7	320,0	242,1	201,0	148,4	83,7	47,5	33,8	22,1	18,8	14,7	12,2	10,38	6,43	5,47	2,86	1,98	1,47	1,26	0,65
MTM 12-350W	687,4	437,1	350,0	266,4	221,0	163,1	91,5	51,9	36,8	24,0	20,6	16,1	13,3	11,43	7,15	6,12	3,12	2,13	1,57	1,33	0,69
MTM 12-375W	721,6	475,6	375,0	290,5	236,0	172,2	98,8	55,6	39,3	26,0	22,1	17,2	14,2	12,24	7,51	6,45	3,37	2,30	1,72	1,48	0,76
MTM 12-440W	778,5	549,6	440,0	328,7	265,7	199,9	114,8	65,0	46,4	30,2	25,8	20,2	16,4	13,87	8,50	7,32	3,75	2,56	1,89	1,62	0,84
MTM 12-470W	821,8	591,2	470,0	362,6	292,4	213,2	122,5	69,8	48,7	33,0	28,3	22,0	17,9	15,21	9,40	8,02	4,08	2,78	2,04	1,73	0,88
MTM 12-535W	1038,0	668,2	535,0	433,1	360,6	271,2	160,7	91,4	63,7	42,0	35,7	27,8	23,0	19,82	12,27	10,54	5,45	3,74	2,77	2,36	1,21
MTM 12-620W	1167,8	740,0	620,0	483,4	397,7	295,3	173,6	99,4	68,3	46,5	39,4	30,7	25,3	21,86	13,58	11,85	6,10	4,26	3,17	2,77	1,41
MTM 12-650W	1297,5	840,0	650,0	526,0	438,0	330,0	192,0	109,7	77,5	51,9	44,1	34,0	27,9	24,21	14,90	12,89	6,80	4,72	3,52	3,02	1,54
MTM 12-830W	1730,0	1037,0	830,0	672,0	559,0	422,0	245,0	141,5	98,9	64,9	55,5	43,2	35,6	30,27	18,99	16,46	8,68	5,98	4,48	3,89	2,00
MTM 12-1000W	1946,3	1249,0	1000,0	807,0	674,0	507,0	298,0	170,5	118,7	78,2	66,9	52,3	42,9	37,08	23,31	20,13	10,70	7,37	5,57	4,79	2,48



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#### **QUALITY AND FLEXIBILITY**

MIDAC is very committed in providing the market with a wide range of products, ensuring premium quality and maximum flexibility to satisfy any requirement, also engineering customized solutions.

MIDAC'S management system is certified according to:

ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004, BS OHSAS 18001:2007, SA 8000:2008



#### **MIDAC SPA SPA HEADQUARTER, SOAVE, VERONA, ITALY**

Unica realtà a produrre batterie avviamento, trazione e stazionarie in un singolo stabilimento produttivo, in 25 anni è diventata una delle aziende leader in Europa con prodotti distribuiti in tutto il mondo.

*The only company that produces Automotive, Motive power and Stationary batteries in the same manufacturing plant, in less than 25 years it has become one of the leading companies in Europe and its products are sold worldwide.*

#### **MIDAC PRODUZIONE VERDE**

Midac utilizza l'energia pulita prodotta dal proprio impianto fotovoltaico per la produzione di batterie e accumulatori, evitando l'emissione di 945 tonnellate di CO<sub>2</sub> ogni anno.

#### **MIDAC GREEN PRODUCTION**

*Midac uses clean energy produced by your photovoltaic system for the production of batteries and accumulators, avoiding the emission of 945 tons of CO<sub>2</sub> each year.*

