



**ELECTRIC POWER srl**

energia de care ai nevoie

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# MTM

## Valve Regulated Lead-Acid STANDBY POWER BATTERIES

**SPECIFICATION**

## ADVANTAGES

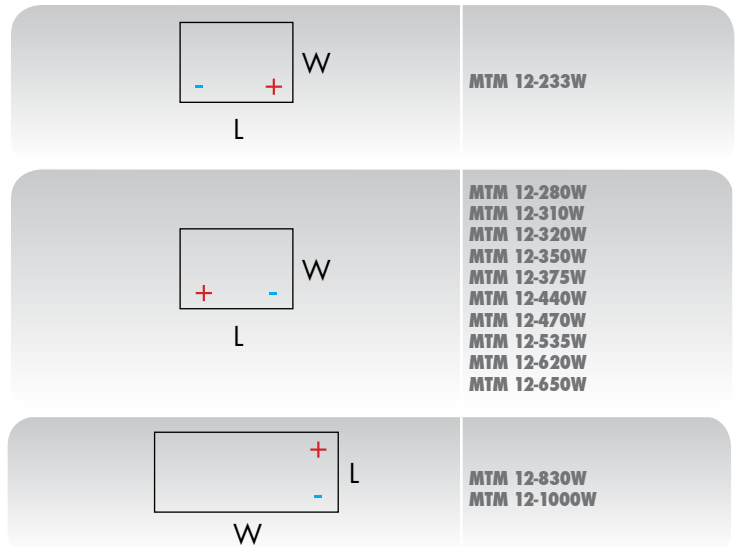
- √ 10+ years Design Life
- √ High-rate performance
- √ Maximum charging efficiency
- √ Easy handling
- √ Easy installation: vertical or horizontal

## MAIN APPLICATIONS

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

## STANDARD REF.

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



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	213,0	17,2	(2x) D16 M6
MTM 12-310W	12	60	310	9,200	1,360	350,0	167,0	179,0	23,5	(2x) D16 M6
MTM 12-320W	12	64	320	9,720	1,280	259,0	168,0	212,5	21,8	(2x) D16 M6
MTM 12-350W	12	69	350	7,200	1,760	259,0	168,0	212,5	24,0	(2x) D16 M6
MTM 12-375W	12	78	375	6,424	1,970	350,0	167,0	179,0	24,6	(2x) D16 M6
MTM 12-440W	12	83	440	5,722	2,213	305,0	168,0	212,5	26,6	(2x) D16 M6
MTM 12-470W	12	92	470	5,275	2,393	329,0	172,0	223,0	29,9	(2x) D18 M8
MTM 12-535W	12	110	535	6,380	2,000	407,0	173,0	231,0	37,2	(2x) D18 M8
MTM 12-620W	12	125	620	5,570	2,270	345,0	172,0	278,0	41,7	(2x) D18 M8
MTM 12-650W	12	140	650	4,670	2,700	483,0	171,0	223,0	45,7	(2x) D18 M8
MTM 12-830W	12	185	830	3,620	3,520	234,0	522,0	223,0	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

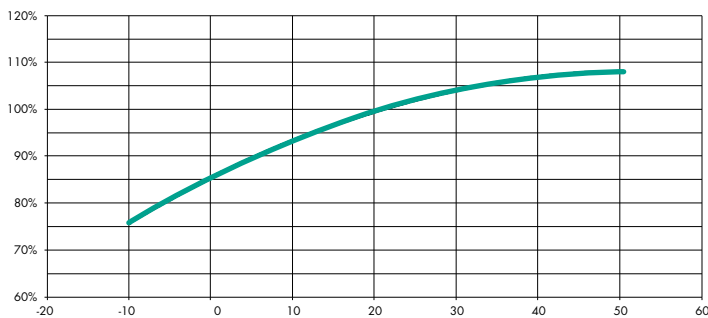
**SPECIFICATION**

√ 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

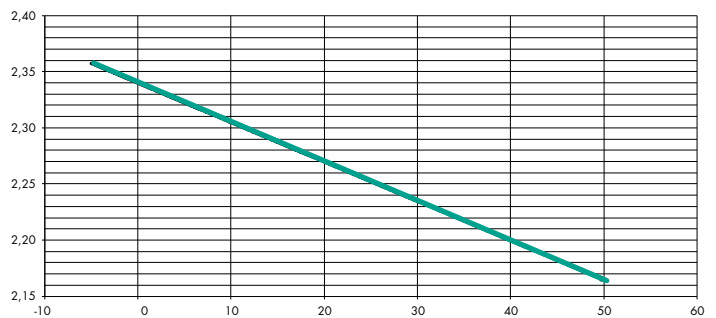
**OPERATION PARAMETERS**

√ Float Voltage (Vpc)	2.24 Vpc to 2.28Vpc
√ Max Float Current (A)	0.20 C10
√ Boost Voltage (Vpc)	2.35 Vpc to 2.40 Vpc
√ Max Boost Current (A)	0.15 C10
√ Operating Temperature	-10°C to +60°C
√ Self Discharge	<3% /month at 20°C
√ Torque setting	12 to 16 Nm (bolts on connections)

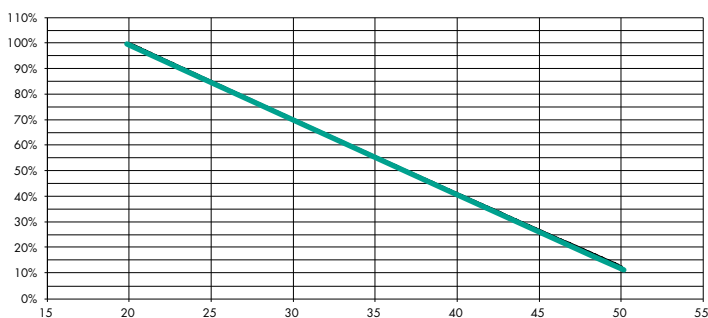
**PERFORMANCE** Capacity vs Temperature (°C)



**TEMPERATURE COMPENSATION** Float Voltage vs Temperature (°C)



**THERMAL DEGRADATION** Lifetime vs Temperature (°C)



**LIFECYCLES** No. of Cycles vs D.o.D. (% C10)

