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MGV

Valve Regulated Lead-Acid STANDBY POWER BATTERIES

CATALOGUE



ADVANTAGES

- ✓ 12+ years Design Life
- ✓ Up to 600 deep discharge cycles
- ✓ 99%+ gas recombination efficiency
- ✓ Maximum charging efficiency
- ✓ Easy handling

MAIN APPLICATIONS

- ✓ Telecommunication
- ✓ Emergency power
- ✓ Energy storage
- ✓ Power plants
- ✓ Substations
- ✓ UPS units
- ✓ Railways

STANDARD REF.

- ✓ EUROBAT GUIDE
- ✓ EN 60896-21
- ✓ EN 60896-22
- ✓ DIN43539-T5
- ✓ EN 61427
- ✓ 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 PVC-SiO ₂ separators
✓ 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	GEL: SiO ₂ gelled 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	Insulated copper
✓ Terminal hardware	Stainless steel + cover

Type	Nominal Voltage V	Actual Capacity		Ri mOhm	Isc kA	Dimensions (mm)			Weight Kg	No. of Terminals
		Ah/10Hrs	Ah/120Hrs			Length	Width	Overall Height		
MGV 12-33	12	33	43	8,500	0,550	198,0	166,0	170,0	14,0	(2x) D16 M6
MGV 12-50	12	50	66	7,640	0,780	276,0	174,0	198,0	21,0	(2x) D16 M8
MGV 12-65	12	65	85	7,350	0,900	310,0	174,0	236,0	30,0	(2x) D16 M8
MGV 12-85	12	85	112	5,850	1,100	414,0	174,0	228,0	37,0	(2x) D16 M8
MGV 12-100	12	100	131	3,910	1,200	513,0	163,0	228,0	44,0	(2x) D16 M8
MGV 12-120	12	120	157	3,860	1,300	513,0	232,0	228,0	52,3	(2x) D16 M8
MGV 12-150	12	150	197	3,650	1,600	513,0	232,0	228,0	63,8	(2x) D16 M8
MGV 12-200	12	200	262	3,200	1,850	513,0	296,5	228,0	82,8	(2x) D16 M8

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

Type	Minutes					Hours										
	5	10	15	20	30	1	2	3	5	10	20	24	48	100	120	240
MGV 12-33	65,1	52,0	45,6	37,8	28,7	18,2	11,0	8,3	5,6	3,3	1,72	1,45	0,80	0,41	0,36	0,19
MGV 12-50	98,7	78,8	69,1	57,3	43,5	27,5	16,7	12,5	8,5	5,0	2,60	2,20	1,22	0,63	0,55	0,29
MGV 12-65	128,3	102,4	89,8	74,5	56,6	35,8	21,7	16,3	11,1	6,5	3,38	2,86	1,58	0,81	0,71	0,38
MGV 12-85	167,8	133,9	117,4	97,4	74,0	46,8	28,4	21,3	14,5	8,5	4,42	3,74	2,07	1,06	0,93	0,49
MGV 12-100	197,4	157,5	138,1	114,6	87,0	55,0	33,4	25,0	17,0	10,0	5,20	4,40	2,43	1,25	1,09	0,58
MGV 12-120	236,9	189,0	165,7	137,5	104,4	66,0	40,1	30,0	20,4	12,0	6,24	5,28	2,92	1,50	1,31	0,70
MGV 12-150	296,1	236,3	207,2	171,9	130,5	82,5	50,1	37,5	25,5	15,0	7,80	6,60	3,65	1,88	1,64	0,87
MGV 12-200	394,8	315,0	276,2	229,2	174,0	110,0	66,8	50,0	34,0	20,0	10,40	8,80	4,86	2,50	2,18	1,16

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

Type	Minutes					Hours										
	5	10	15	20	30	1	2	3	5	10	20	24	48	100	120	240
MGV 12-33	162,7	121,9	95,7	80,3	60,2	35,2	21,5	15,5	10,6	6,3	3,40	3,02	1,60	0,83	0,73	0,39
MGV 12-50	246,5	184,7	145,0	121,7	91,2	53,4	32,5	23,6	16,1	9,5	5,10	4,58	2,43	1,25	1,10	0,59
MGV 12-65	320,5	240,0	188,4	158,1	118,5	69,4	42,3	30,6	20,9	12,4	6,60	5,95	3,16	1,63	1,43	0,76
MGV 12-85	419,1	313,9	246,4	206,8	155,0	90,8	55,3	40,0	27,4	16,2	8,70	7,78	4,13	2,13	1,87	0,99
MGV 12-100	493,0	369,3	289,9	243,3	182,3	106,8	65,0	47,1	32,2	19,0	10,20	9,15	4,86	2,50	2,20	1,17
MGV 12-120	591,6	443,2	347,9	292,0	218,8	128,2	78,0	56,5	38,6	22,8	12,20	10,98	5,83	3,00	2,64	1,40
MGV 12-150	739,5	554,0	434,9	365,0	273,5	160,2	97,5	70,7	48,3	28,5	15,30	13,73	7,29	3,75	3,30	1,76
MGV 12-200	986,0	738,6	579,8	486,6	364,6	213,6	130,0	94,2	64,4	38,0	20,40	18,30	9,72	5,00	4,40	2,34

All the above data are actual values after the 5th cycle with a general tolerance of ±2%