

MVG 12500

Valve-regulated lead-acid battery



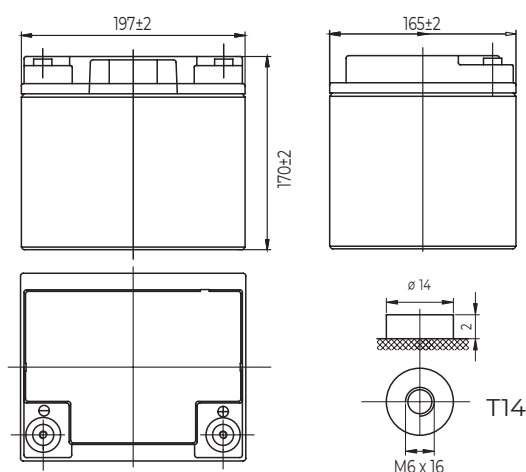
Deep Cycle Gel



SPECIFICATIONS

Nominal voltage		12V (6 cell per unit)
Nominal capacity at 10 hours rate/10.8V (25°C)		45 Ah
Capacity (25°C)	20 Hours rate/10.8V	47.8 Ah
	5 Hours rate/10.8V	38.4 Ah
Terminal type		T14
Torque		5.1±0.6 N.m
Approx. internal resistance (25°C)		7.5 mΩ
Dimensions	Length	197±2 mm (77.5 inch)
	Width	165±2 mm (65 inch)
	Height	170±2 mm (67 inch)
	Total height	170±2 mm (67 inch)
Design Life (stand-by)	JIS at 25°C	10 years
	Eurobat at 20°C	10/12 years
Weight		14.5 kg (31.96lbs) ±3%
Nominal operating temperature		25°C±3 (77±5°F)
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C		13.5V~13.8V
Cyclic charging voltage at 25°C		14.5V~14.7V
Temperature compensation	Float charge	-18
	Cycle charge	-30
Max. charging current (A)		12A
Max. discharge current for 5 seconds		400A
Self discharge rate (25°C)		≤3%/month
Battery container ABS UL94-HB		V-0 optional

DIMENSIONS AND TERMINAL



CONSTRUCTION

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid Gel	Rubber	Copper

CONSTANT CURRENT DISCHARGE CHARACTERISTICS AT 25°C

Ampere

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	100	77.1	46.1	28.4	16.4	11.8	9.46	8.08	5.55	4.58	2.43
9.90V	97.1	75.3	45.2	27.9	16.3	11.8	9.40	8.03	5.52	4.57	2.42
10.2V	93.1	72.5	43.8	27.2	16.2	11.7	9.33	7.98	5.48	4.56	2.42
10.5V	89.1	70.0	42.8	26.4	16.0	11.6	9.27	7.92	5.45	4.53	2.40
10.8V	84.1	66.3	41.2	25.5	15.6	11.3	8.99	7.68	5.28	4.50	2.39

CONSTANT POWER DISCHARGE CHARACTERISTICS AT 25°C

Watts

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1081	847	518	323	190	139	111	95.5	66.0	54.7	29.1
9.90V	1048	826	507	319	189	138	111	94.9	65.6	54.6	29.1
10.2V	1005	796	492	310	188	137	110	94.3	65.1	54.4	29.0
10.5V	962	769	480	301	185	137	109	93.6	64.7	54.1	28.8
10.8V	908	728	462	291	180	132	106	90.8	62.7	53.7	28.6

The characteristics mentioned above are based on average values observed over three charge and discharge cycles. It's essential to ensure the batteries are fully charged before conducting tests. Information in this document may change without prior notice and becomes binding only after receiving written confirmation. For the most recent version, kindly reach out to Mundilec.



Manufactured according to IEC60896-21 / 22

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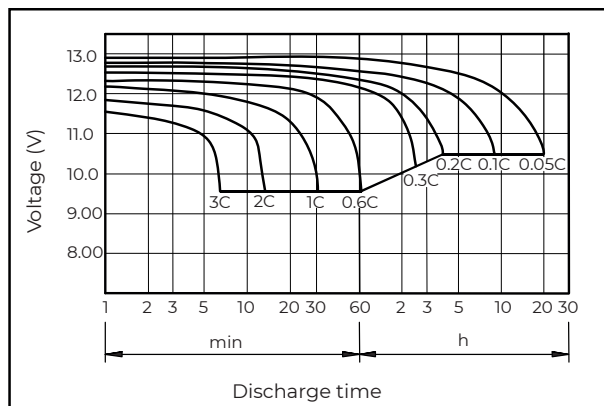
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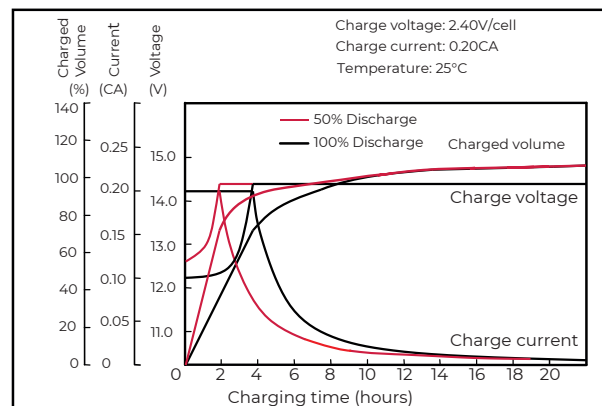
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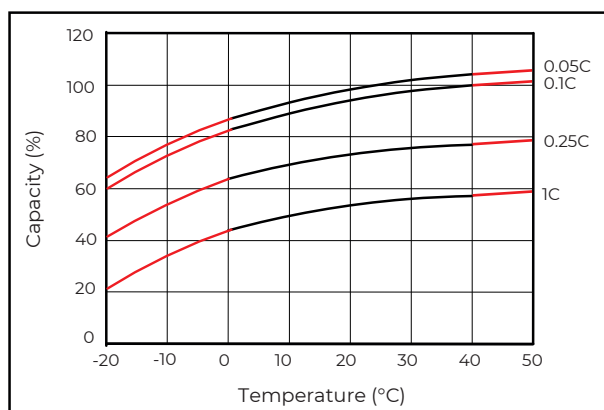
DISCHARGE CHARACTERISTICS AT 25°C



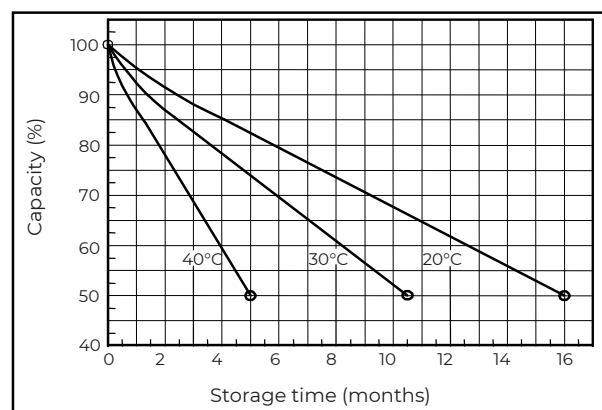
CHARGING CHARACTERISTICS AT 25°C



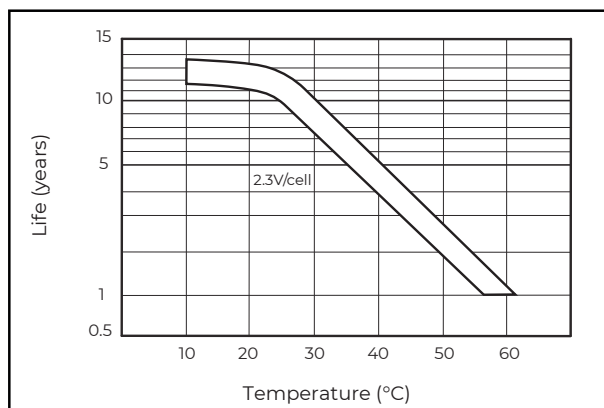
TEMPERATURE EFFECTS ON CAPACITY



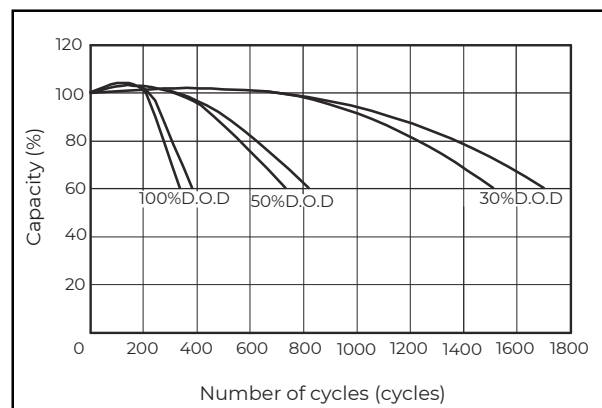
SELF-DISCHARGE CHARACTERISTICS



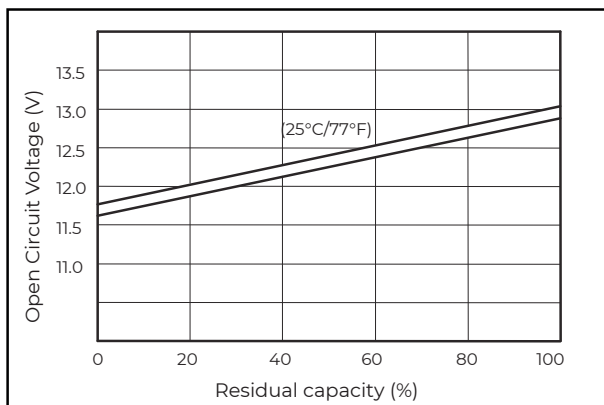
FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D. AT 25°C



OCV VS CAPACITY AT 25°C



CHARGING VOLTAGE VS TEMPERATURE

