

MVG 12800

Valve-regulated lead-acid battery



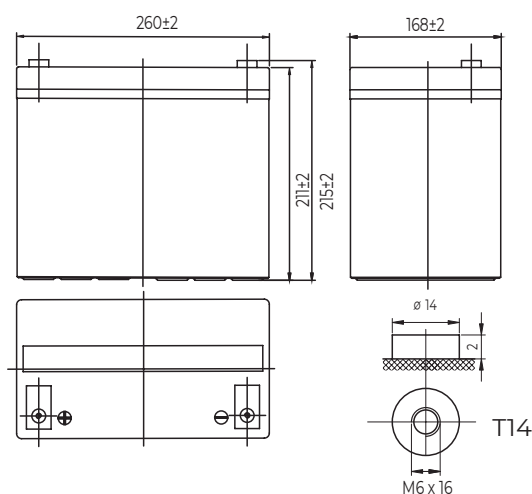
Deep Cycle Gel



SPECIFICATIONS

Nominal voltage	12V (6 cell per unit)	
Nominal capacity at 10 hours rate/10.8V (25°C)	80Ah	
Capacity (25°C)	20 Hours rate/10.8V	84.8Ah
	5 Hours rate/10.8V	66Ah
Terminal type	T14	
Torque	5.1±0.6N.m	
Approx. internal resistance (25°C)	7.0 mΩ	
Dimensions	Length	260±2mm (10.24inch)
	Width	168±2mm (6.61inch)
	Height	211±2mm (8.31inch)
	Total height	215±2mm (8.46inch)
Design Life (stand-by)	JIS at 25°C	12 years
	Eurobat at 20°C	10/12 years
Weight	25.30kg (55.77lbs)±3%	
Nominal operating temperature	25±3°C (77°F±5)	
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 mV/°C/Block
	Cycle charge	-30 mV/°C/Block
Max. charging current (A)	16A	
Max. discharge current for 5 seconds	700A	
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	156	128	77.6	48.0	29.2	20.8	16.3	13.9	9.79	8.14	4.32
9.90V	151	125	76.0	47.3	29.1	20.7	16.2	13.8	9.73	8.13	4.31
10.2V	145	120	73.7	46.1	28.8	20.5	16.1	13.7	9.67	8.10	4.30
10.5V	139	116	71.9	44.6	28.4	20.4	16.0	13.6	9.60	8.06	4.27
10.8V	131	110	69.3	43.2	27.6	20.0	15.5	13.2	9.31	8.00	4.24

CONSTANT POWER DISCHARGE CHARACTERISTICS AT 25°C

Watts

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1685	1405	871	547	339	245	192	164	116	97.2	51.8
9.90V	1634	1372	853	539	337	243	191	163	116	97.0	51.7
10.2V	1567	1321	827	525	334	242	189	162	115	96.8	51.5
10.5V	1499	1276	807	509	329	240	188	161	114	96.2	51.2
10.8V	1415	1209	778	492	320	235	183	156	111	95.5	50.9

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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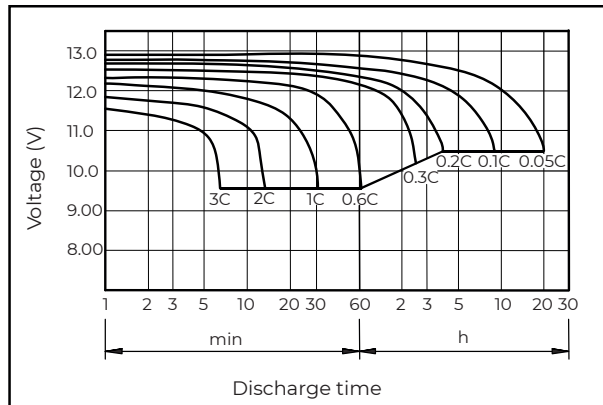
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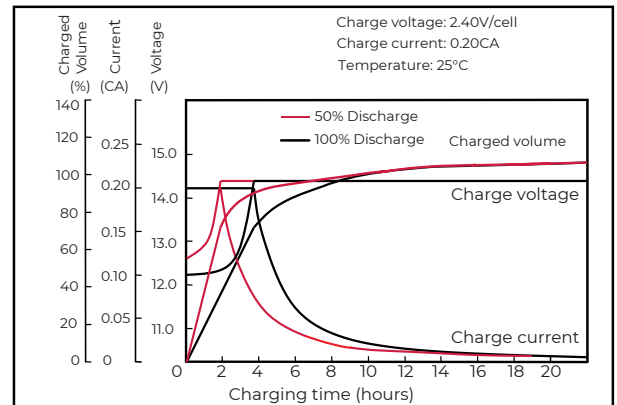
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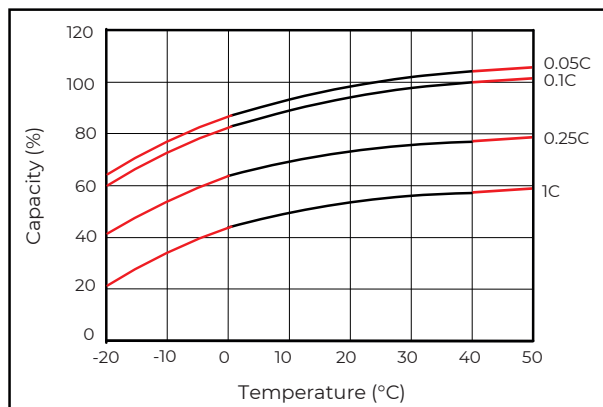
DISCHARGE CHARACTERISTICS AT 25°C



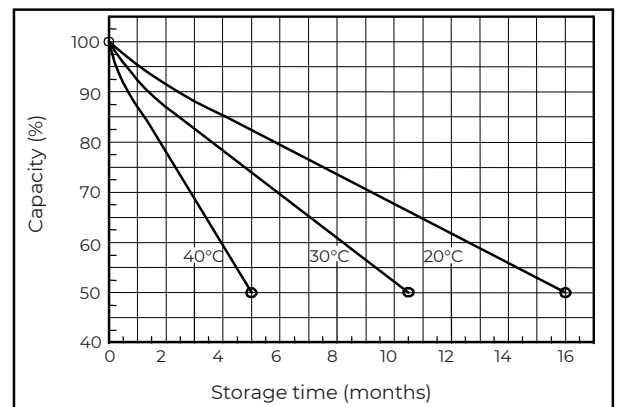
CHARGING CHARACTERISTICS AT 25°C



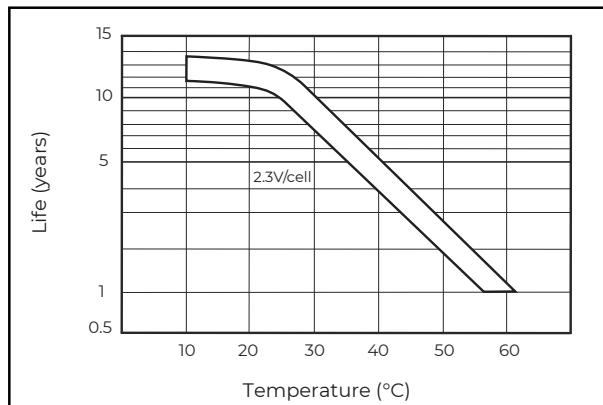
TEMPERATURE EFFECTS ON CAPACITY



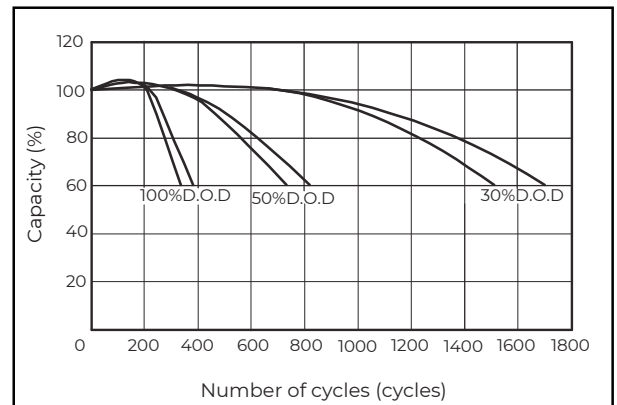
SELF-DISCHARGE CHARACTERISTICS



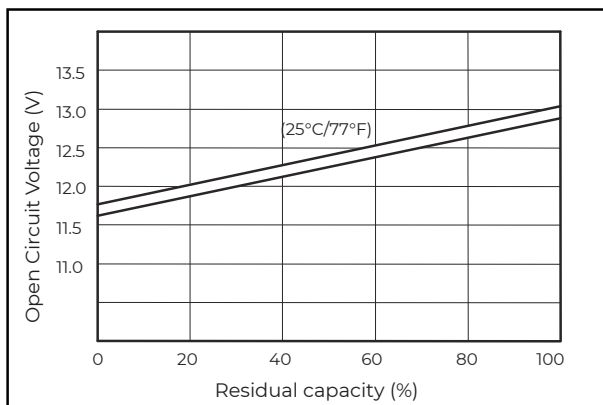
FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D. AT 25°C



OCV VS CAPACITY AT 25°C



CHARGING VOLTAGE VS TEMPERATURE

