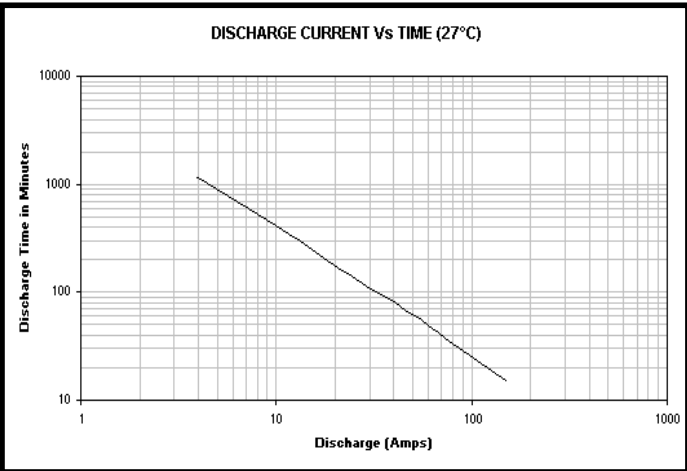


Specification

Nominal voltage	12V	
Rated capacity (20 hour rate)	78 Ah	
Dimensions	Height (with terminals)	203 mm
	Length	351 mm
	Width	167 mm
Weight (approx.)	27 kg	

Characteristics *

Capacity @ 77°F (25°C)	20 hour rate (3.90A) upto 10.5V	78.00 Ah
	10 hour rate (7.26A) upto 10.5V	72.55 Ah
	5 hour rate (13.79) upto 10.2V	66.30 Ah
	1 hour rate (50.65) upto 9.6V	50.30 Ah
	15 minute rate (150.0) upto 7.8V	37.05 Ah
Internal resistance	Fully charged battery 81°F (27°C)	4.6 mΩ
Capacity affected (temperature at C20 hour rate)	104°F (40°C)	110 %
	81°F (27°C)	100 %
	32°F (0°C)	80 %
	5°F (-15°C)	60%
Self discharge 88°F (27°C)	Capacity after 3 month storage	88 %
	Capacity after 6 month storage	78 %
Terminal		
Max. discharge current 81°F (27°C)		
Short circuit current	2420 A	

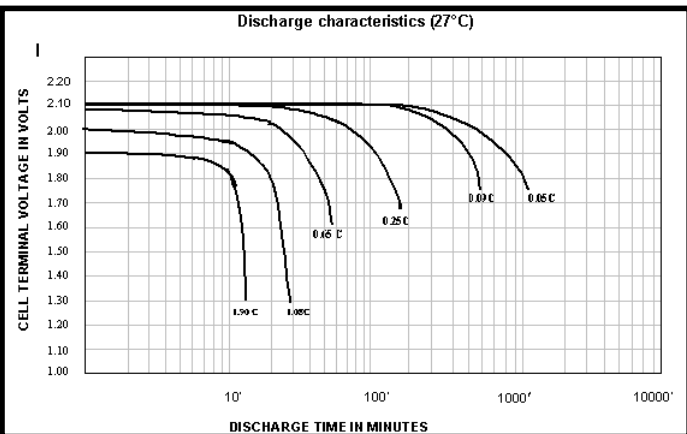


Constant power discharge rating watts per battery @ 27 °C *

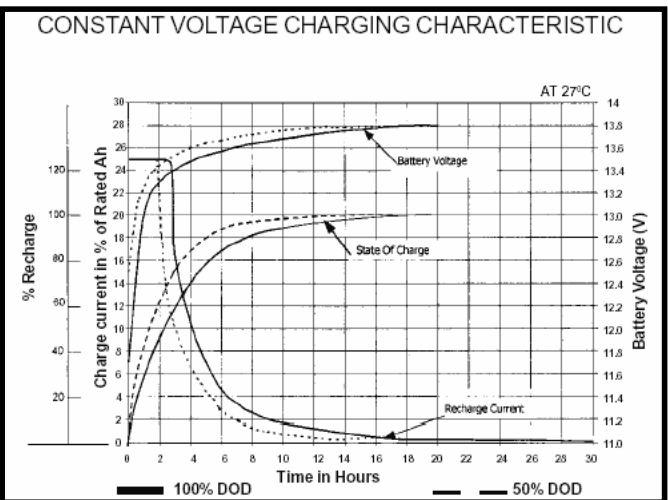
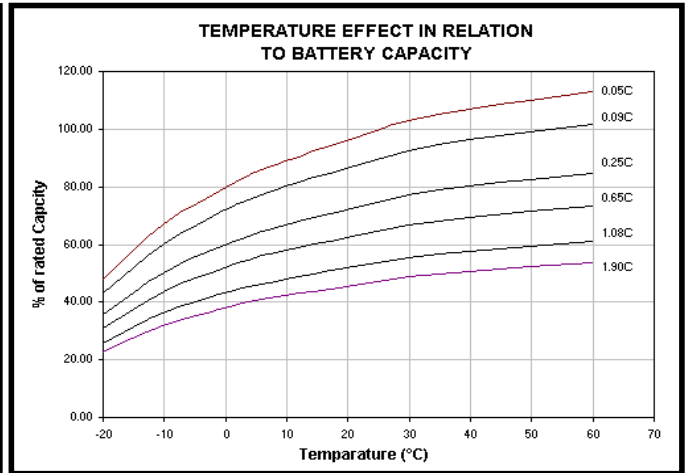
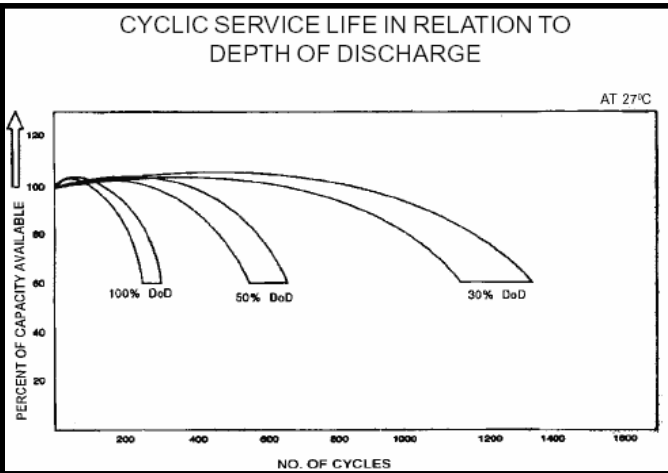
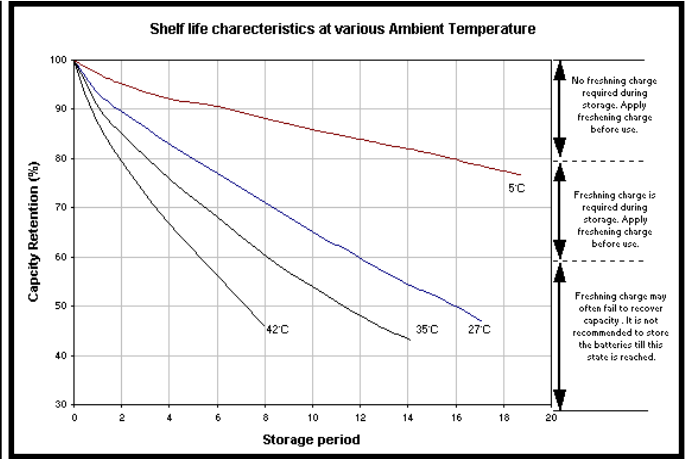
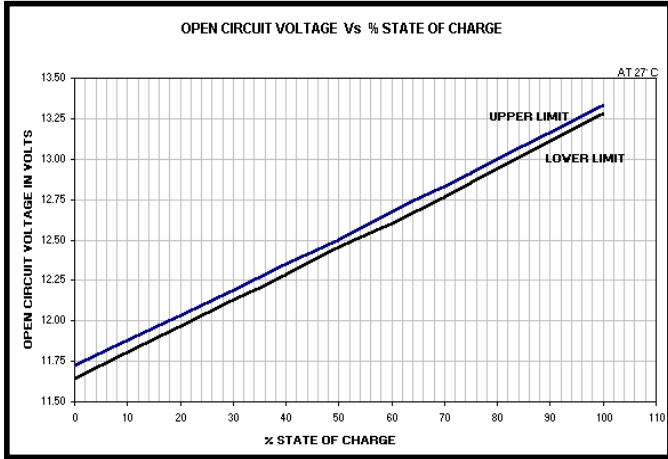
ECV	DURATION											
	5 min	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.80	2582	1888	1521	1246	934	534	335	254	170	112	96	47
1.70	2863	2067	1681	1295	967	569	348	257	176	115	98	48
1.60	3042	2143	1761	1322	1032	589	358	262	181	118	99	49

Constant current discharge rating amperes @ 27 °C *

ECV	DURATION											
	5 min	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.30	312.00	195.00	150.00	120.00	86.67							
1.55	278.57	181.40	144.44	114.71	85.71	52.70						
1.60	259.14	176.15	140.79	111.75	84.78	50.65	30.72	21.00	14.45	8.97	7.58	4.18
1.70	234.23	165.43	128.71	103.59	78.00	49.37	28.23	19.73	13.38	8.58	7.40	3.97
1.75	229.41	159.18	125.81	102.63	77.23	48.75	27.86	19.70	13.33	8.52	7.26	3.90
1.80	220.96	156.00	123.81	100.00	76.47	46.65	27.66	19.60	13.22	8.48	7.22	3.88



* The above data are average values and can be obtained within three charge/discharge cycles



CHARGING METHODS:

Constant voltage charging at 27° C

Stand by use : Charging voltage 13.5V/battery
Max. charging current : 25 % of rated Ah capacity

Cyclic use : Charging voltage 13.8V/Battery
Max. charging current : 25 % of rated Ah capacity
Temperature compensation : 18 mV/battery/°C

CAUTION:

- Avoid short circuit
- Don't charge in a sealed container

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Quality systems certified to
EN ISO 14001:2004
ISO/TS 16949: 2002

