



Specification

Nominal voltage		12 Volts
Rated capacity (C ₂₀ Hour rate at 27°C)		120 Ampere Hour
Dimensions	Length	393mm
	Width	173mm
	Height	240mm
Weight ± 1.0 Kgs (approx.)		36.6 Kgs

Characteristics *

Capacity@ 80.6°F (27°C)	20 hour rate (6.0A) upto 10.5V	120.0 Ah
	10 hour rate (11.17A) upto 10.5V	111.70 Ah
	5 hour rate (20.58A) upto 10.2V	102.90 Ah
	1 hour rate (76.43A) upto 9.6V	76.43Ah
	15 minute rate (206.80A) upto 9.6V	51.70 Ah
Internal resistance	Fully charged battery 80.6°F (27°C)	5.4 mΩ
Capacity affected (Temperature at C ₂₀ hour rate)	104°F (40°C)	110%
	80.6°F (27°C)	100%
	32°F (0°C)	80%
	5°F (-15°C)	60%
Self discharge 80.6°F (27°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
Terminal Type	M8×25 mm Copper terminal	
Short circuit current	2312 A	

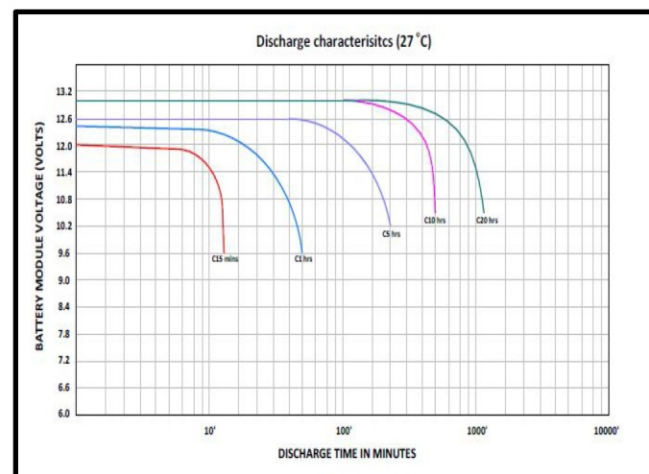
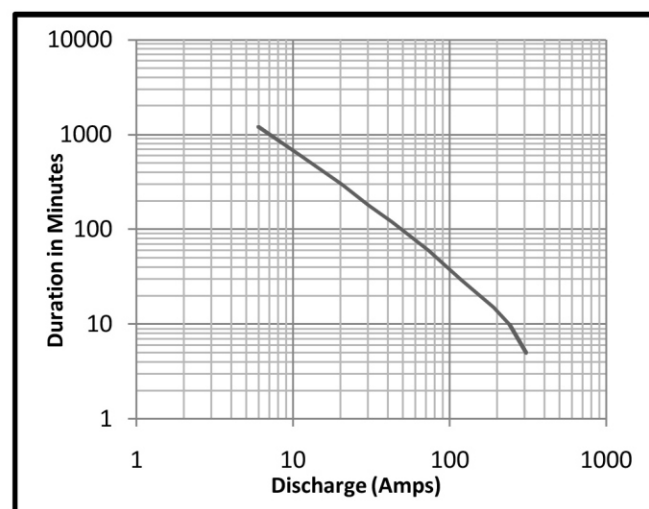
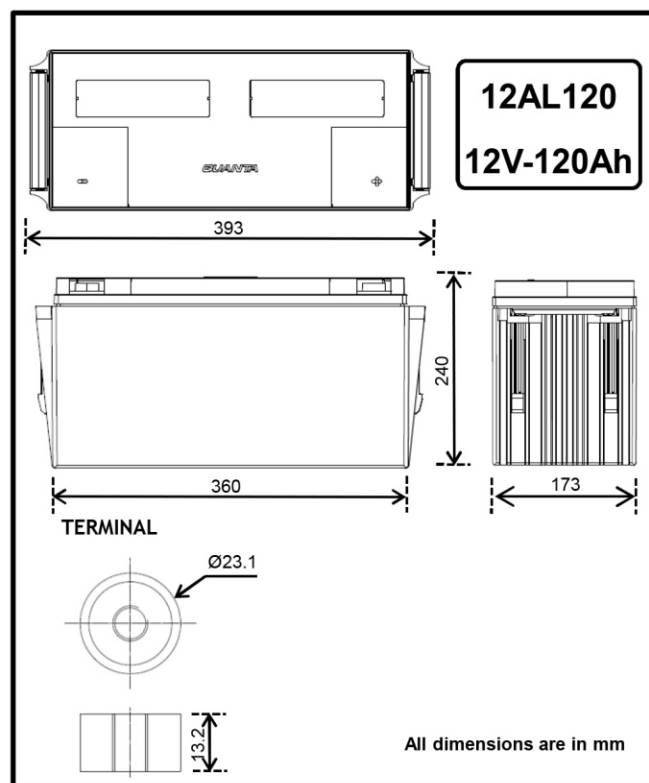
Constant power discharge rating watts per battery @ 27 °C*

ECV	DURATION										
	10 min	15 min	20 min	30 min	60 min	2 hrs	3 hrs	5 hrs	8 hrs	10 hrs	20 hrs
1.60	2860	2354	1913	1453	900	544	397.0	266.0	181.0	146.0	74.0
1.65	2729	2302	1865	1432	880	536	386.5	260.0	177.5	145.0	73.5
1.70	2597	2249	1817	1411	860	528	376.0	254.0	174.0	144.0	73.0
1.75	2465	2197	1769	1390	840	520	365.0	248.0	170.5	143.0	72.5
1.80	2333	2144	1720	1368	819	511	354.0	242.0	167.0	142.0	72.0

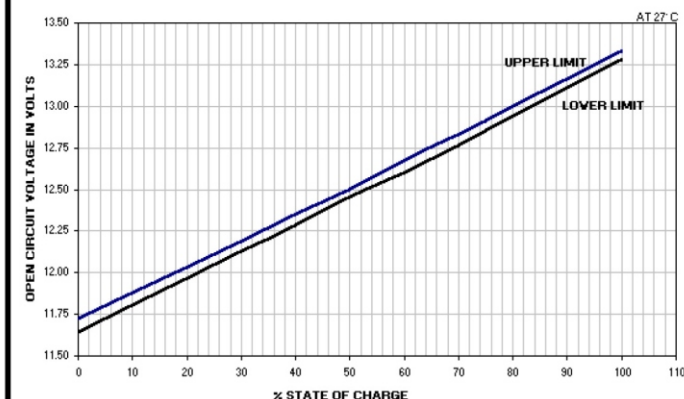
Constant current discharge rating amperes @ 27 °C *

ECV	DURATION										
	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.60	260.87	206.80	169.0	122.45	76.43	47.26	32.30	22.23	13.79	11.67	6.43
1.65	252.89	200.18	163.45	120.63	75.72	45.35	31.33	21.41	13.49	11.53	6.27
1.70	244.90	193.55	157.9	118.81	75.00	43.43	30.35	20.58	13.19	11.39	6.10
1.75	240.00	190.48	155.8	117.65	73.17	42.86	30.30	20.51	13.11	11.17	6.00
1.80	235.29	184.62	151.9	115.38	71.43	42.55	30.15	20.34	13.04	11.11	5.97

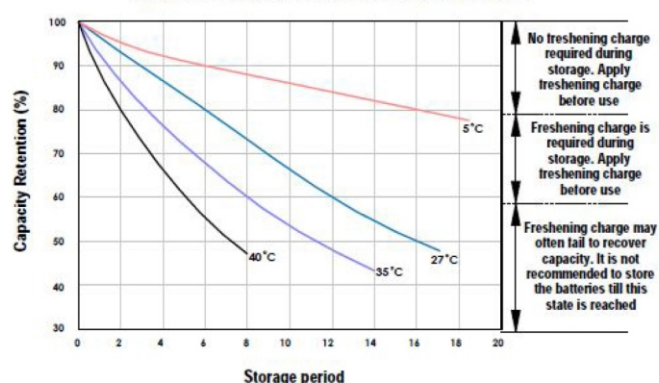
*Note: The above data are average values and can be obtained within three charge/discharge cycles
A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values



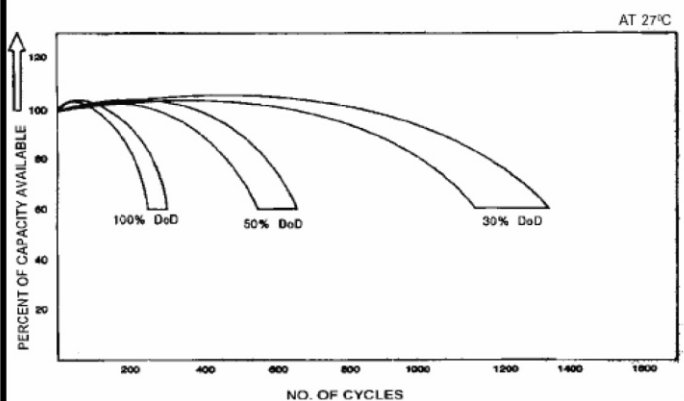
OPEN CIRCUIT VOLTAGE Vs % STATE OF CHARGE



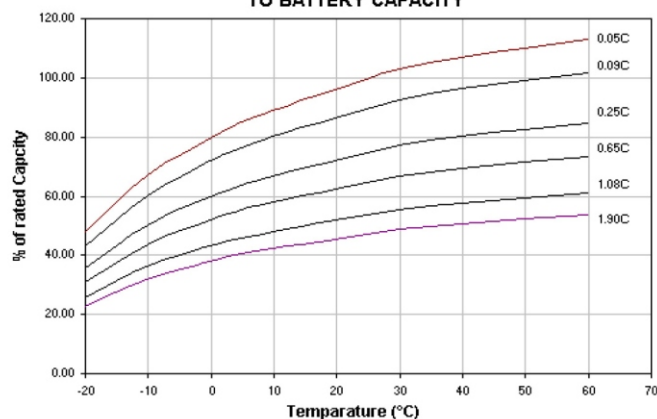
Shelf life characteristics at various Ambient Temperatures



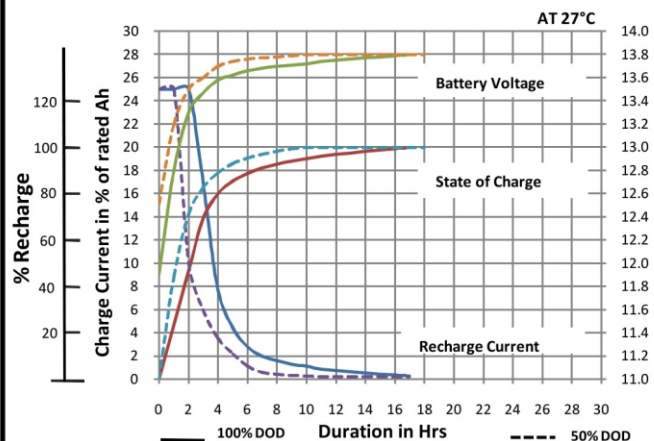
CYCLIC SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



TEMPERATURE EFFECT IN RELATION TO BATTERY CAPACITY



CONSTANT VOLTAGE CHARGING CHARACTERISTICS



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

Quality systems certified to

EN ISO 14001:2004
ISO/TS 16949: 2009