



Specification

Nominal voltage		12 Volts
Rated capacity (C ₂₀ Hour rate at 27°C)		150 Ampere Hour
Dimensions	Length	453mm
	Width	173mm
	Height	251mm
Weight ± 1.0 Kgs (approx.)		45.0 Kgs

Characteristics *

Capacity@ 80.6°F (27°C)	20 hour rate (7.50A) upto 10.5V	150.0 Ah
	10 hour rate (13.97A) upto 10.5V	139.70 Ah
	5 hour rate (25.73A) upto 10.2V	128.65 Ah
	1 hour rate (95.54A) upto 9.6V	95.54 Ah
	15 minute rate (258.62A) upto 9.6V	64.65 Ah
Internal resistance	Fully charged battery 80.6°F (27°C)	4.86 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	2633 A	

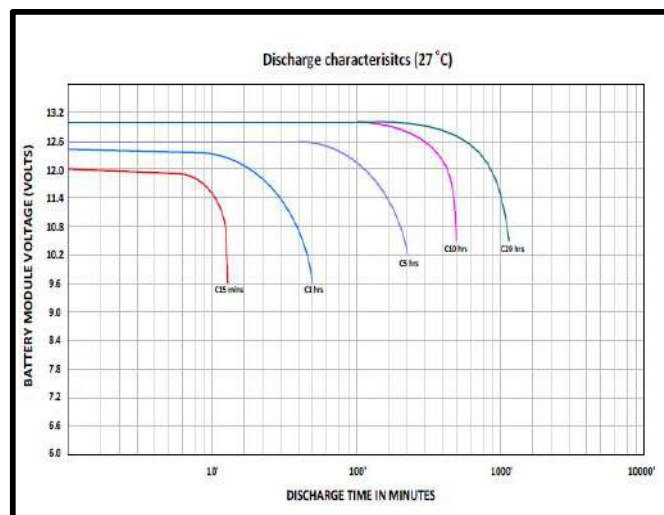
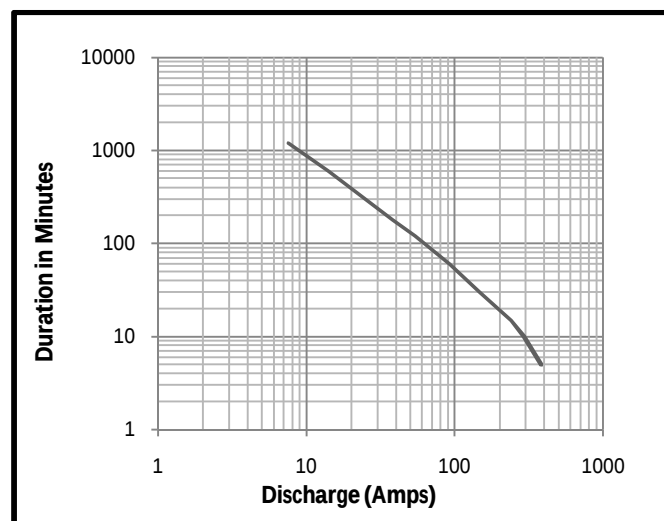
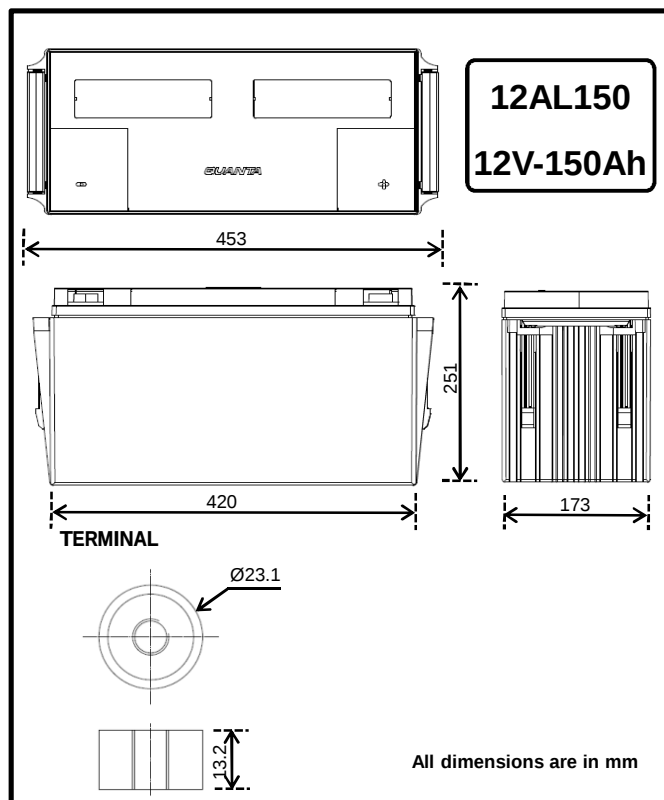
Constant power discharge rating watts per battery @ 27 °C*

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	3594	2801	2269	1817	1125	680	495.0	340.0	225.0	183.0	93.0
1.65	3441	2764	2223	1786	1100	670	483.5	325.5	219.0	181.5	92.5
1.70	3288	2727	2177	1755	1075	659	470.0	318.0	213.0	180.0	92.0
1.75	3135	2690	2127	1724	1050	649	456.0	310.0	210.0	178.5	91.0
1.80	2982	2570	2078	1693	1024	638	442.0	302.0	207.0	177.0	90.0

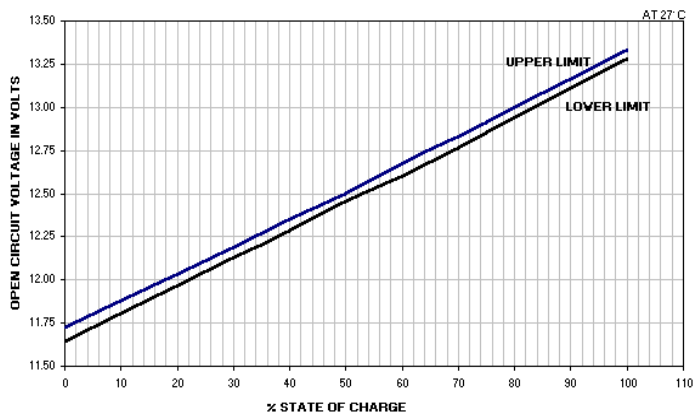
Constant current discharge rating amperes @ 27 °C *

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	326.09	258.62	211.26	153.06	95.54	59.08	40.38	27.79	17.24	14.59	8.03
1.65	316.11	250.28	204.31	150.79	94.65	56.69	39.16	26.76	16.87	14.41	7.83
1.70	306.12	241.94	197.36	148.51	93.75	54.29	37.94	25.73	16.49	14.23	7.63
1.75	300.00	238.10	194.80	147.06	91.46	53.57	37.88	25.64	16.39	13.97	7.50
1.80	294.12	230.77	189.80	144.23	89.29	53.19	37.69	25.42	16.30	13.89	7.46

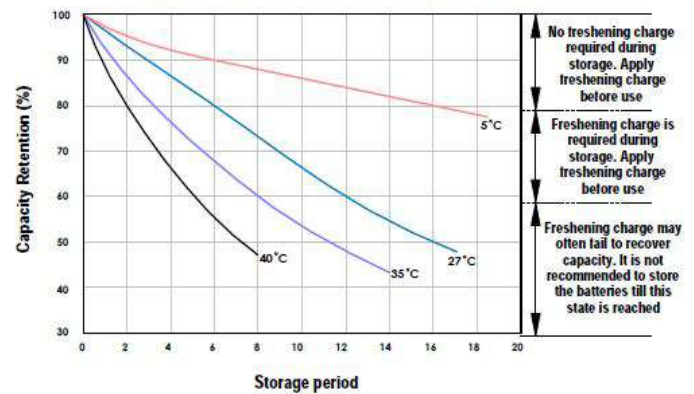
*Note: The above data are average values and can be obtained within three charge/discharge cycles
A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values



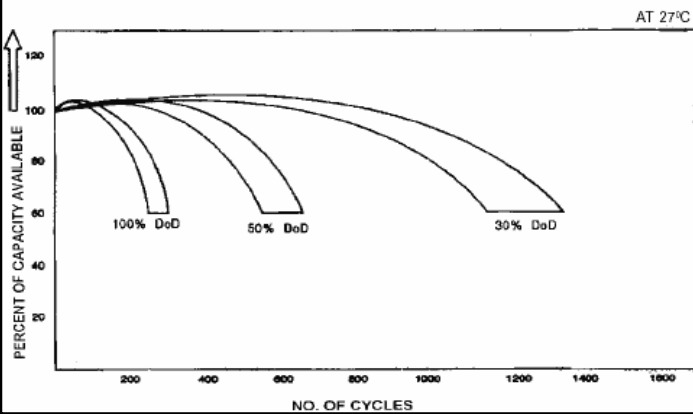
OPEN CIRCUIT VOLTAGE Vs % STATE OF CHARGE



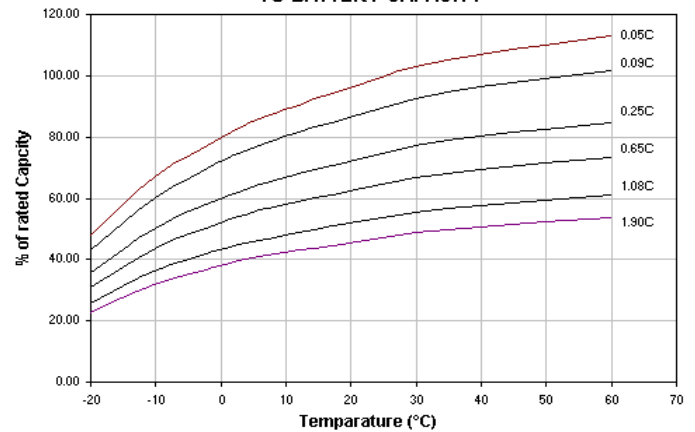
Shelf life characteristics at various Ambient Temperatures



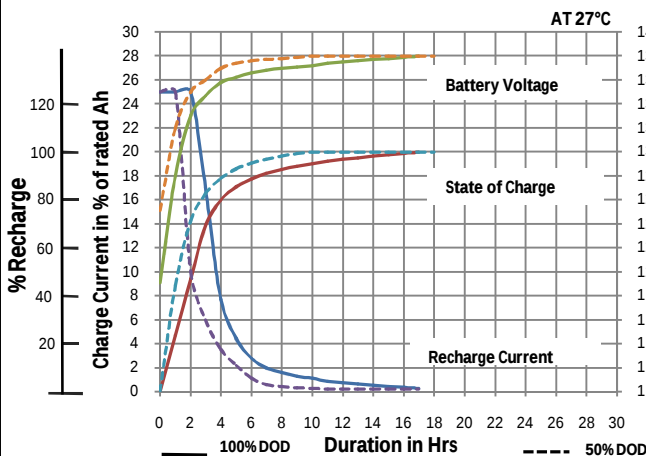
CYCLIC SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



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

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CAUTION:

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

Quality systems certified to

EN ISO 14001:2004
 ISO/TS 16949: 2009