



Specification

Nominal voltage	12 Volts	
Rated capacity (C ₂₀ Hour rate at 27°C)	160 Ampere Hour	
Dimensions (±2 mm)	Length	445 mm
	Width	168 mm
	Height	283 mm
Weight ± 1.0 Kgs (approx.)	52.0 Kgs	

Characteristics *

Capacity@ 80.6°F (27°C)	20 hour rate (8.0A) upto 10.5V	160.0 Ah
	10 hour rate (14.90A) upto 10.5V	149.0 Ah
	5 hour rate (27.44A) upto 10.2V	137.20 Ah
	1 hour rate (103.90A) upto 9.6V	103.90 Ah
	15 minute rate (288.81A) upto 9.6V	72.20 Ah
Internal resistance	Fully charged battery 80.6°F (27°C)	4.35 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	M6×25 mm bolted	
Short circuit current	2984 A	

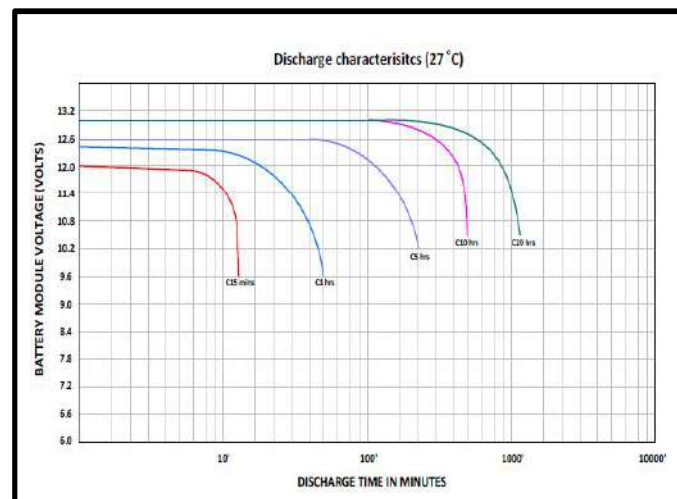
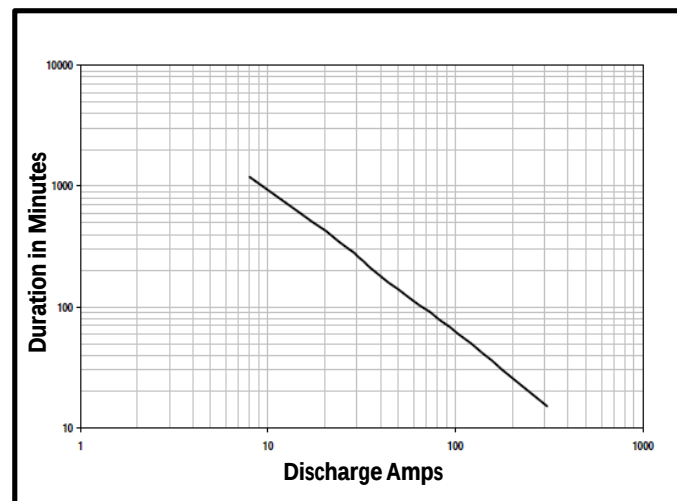
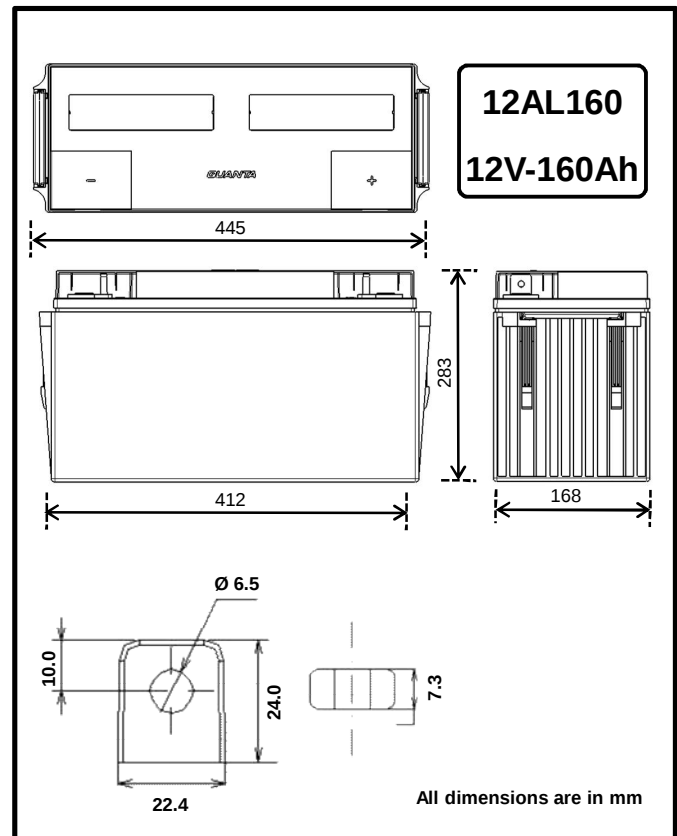
Constant power discharge rating watts per battery @ 27°C *

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	3850	3202	2519	1979	1131	686	497.0	344.0	227.0	185.0	98.0
1.65	3782	3129	2394	1918	1113	676	493.0	338.5	220.5	182.0	97.0
1.70	3713	3056	2369	1856	1094	666	489.0	333.0	214.0	181.0	96.0
1.75	3552	2911	2324	1824	1060	655	485.0	327.5	211.0	179.5	95.5
1.80	3391	2766	2279	1792	1026	643	481.0	322.0	208.0	178.0	95.0

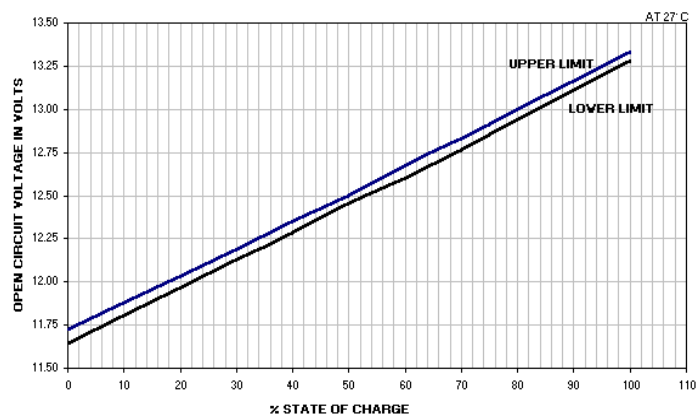
Constant current discharge rating amperes @ 27 °C *

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	361.34	288.81	229.23	173.91	103.90	63.02	43.07	29.65	18.39	15.56	8.57
1.65	350.34	276.42	220.85	166.96	102.58	60.46	41.77	28.55	17.99	15.37	8.35
1.70	339.34	264.03	212.48	160.00	101.27	57.91	40.47	27.44	17.59	15.18	8.14
1.75	326.53	258.06	210.53	158.42	100.00	57.14	40.40	27.35	17.49	14.90	8.00
1.80	320.00	253.97	205.13	156.86	95.69	56.74	40.20	27.12	17.39	14.81	7.96

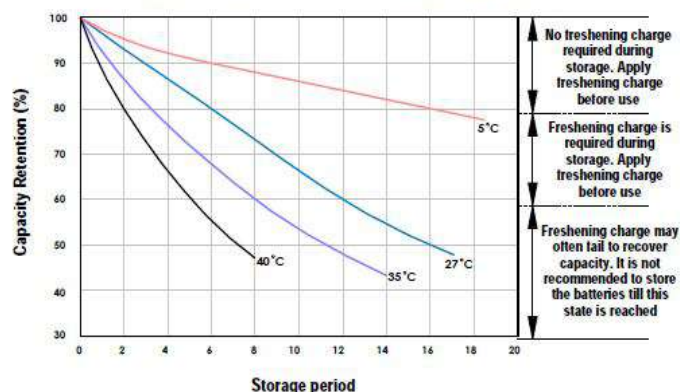
*Note: The above data are average values and can be obtained within three charge/discharge cycles
 A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values



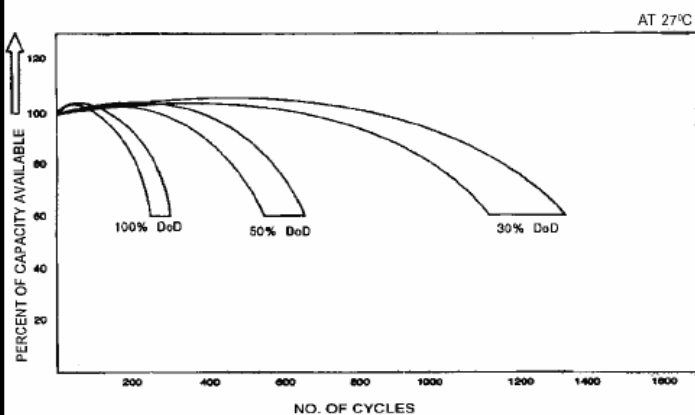
OPEN CIRCUIT VOLTAGE Vs % STATE OF CHARGE



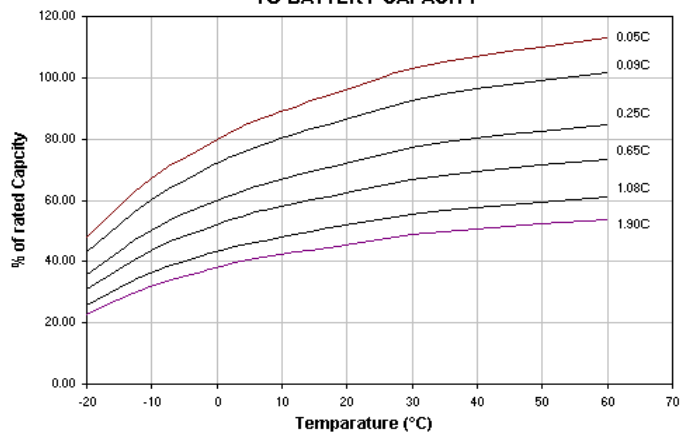
Shelf life characteristics at various Ambient Temperatures



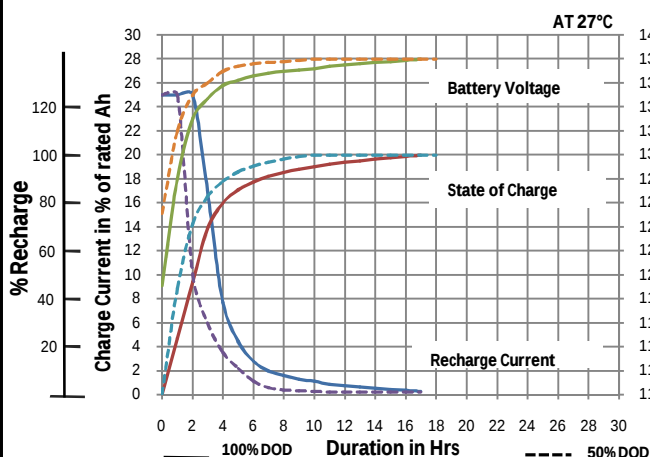
CYCLIC SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



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