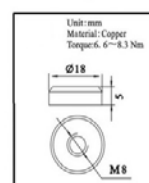
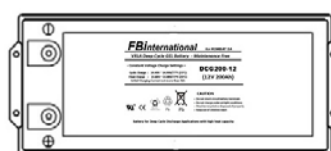
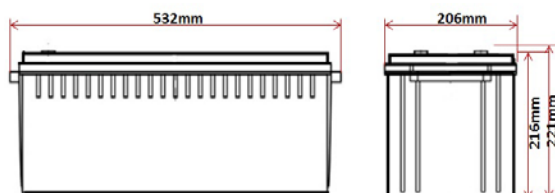


Model: DCG200-12 (Maintenance Free Deep Cycle GEL) for ROMBAT SA

DCG advanced gel battery series with its special design mates the advantages of low internal resistance that find from AGM construction design that has much better discharge capability rate to power backup any standby system, also enhances the traditional gel battery properties of better thermal stability and cycle life to serve most of the motive applications. The colloidal silica electrolyte provides extra heat capacity due to extra water to tolerate harsh and fluctuating temperature environments, since its temperature swings are moderated. The special formulae composition on electrolyte and active pasted material protects the plates that give better cycling and suitable for super-deep discharge applications. Neutron Power advanced gel battery adopts an advance filling process on mixing the colloid silica and acid and fill the battery under vacuum by using a patented formulation to control the battery not easily dry up as the tradition gel product does. The product is designed very much suitable for power back up of any standby system at a place where main power instability may occur frequently or any system installed out door where temperature fluctuation stands a critical affecting factor for system operation.

Specification

Nominal Voltage	12 V
Rated Capacity (20 hour at 20°C)	200 Ah
Total Height	221 mm
Height	216 mm
Length	532 mm
Width	206 mm
Approx. Weight	58.4kg±3%



Characteristics

Capacity	20hr/1.80Vpc/20°C(10A)	200Ah
	10hr/1.80Vpc/20°C(18A)	180Ah
	5hr/1.70Vpc/30°C(32.8A)**	164Ah
Internal Resistance at fully charged at 20°C at electrolyte steady status		≤ 3 mΩ
Capacity affected by temperature	40°C(104°F)	102%
	20°C ~ 25°C(77°F)	100%
	0°C(32°F)	90%
	-15°C(5°F)	70%
Self-discharge at 20°C	After 3 months storage	92%
	After 6 months storage	84%
	After 12 months storage	65%
Standard Terminal	M8	
Reserve Capacity*	@25Amps=370mins	@75Amps=100mins
Constant voltage charge at 20°C	Initial charging current less than 36A Float Voltage: 13.6V to 13.8V Cycle Voltage:14.4V to 14.9V	

Application Examples

Wheelchair; Robots; Lawn mowers; Golf Trolley; Pumps; Magnetic lifts; Solar; Electric tools; automatic guide; Photovoltaic

Remarks

* RC (Reserve Capacity) - the number of minutes a battery can be discharged at 25 or 75 A.

**5 hour rate is based on IEC (International Electro-technical Commission temperature standard of 30°C (86°F)).

Constant Current Discharge Mean Data (ampere per cell) at 20°C

Volt/Cell	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	302	257	163	121	111	70.5	49.5	33.6	22.2	19.8	11.0
1.65V	297	252	160	118	109	69.2	48.6	33.0	21.8	19.4	10.8
1.70V	291	248	157	116	107	67.9	47.7	32.4	21.4	19.1	10.6
1.75V	286	243	154	114	105	66.6	46.8	31.8	21.0	18.7	10.4
1.80V	275	234	149	110	101	64.1	45.0	30.6	20.2	18.0	10.0

Constant Power Discharge Mean Data (watt per cell) at 20°C

Volt/Cell	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	582	495	315	232	213	135	95.2	64.7	42.7	38.1	21.1
1.65V	571	486	309	228	209	133	93.5	63.6	42.0	37.4	20.7
1.70V	561	477	304	224	206	130	91.8	62.4	41.2	36.7	20.4
1.75V	550	468	298	220	202	128	90.1	61.2	40.4	36.0	20.0
1.80V	529	450	286	211	194	123.	86.6	58.9	38.8	34.6	19.2

FBInternational

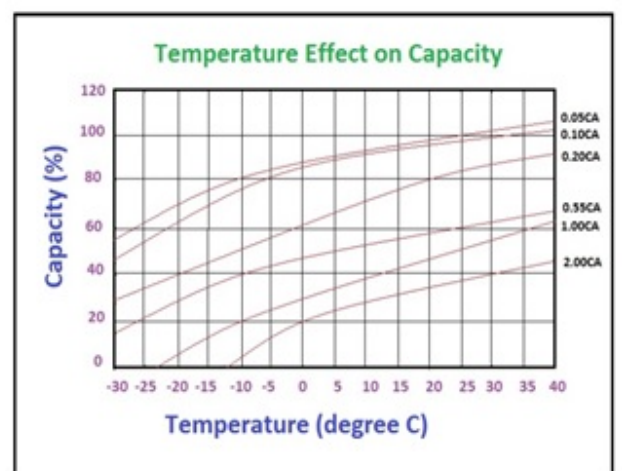
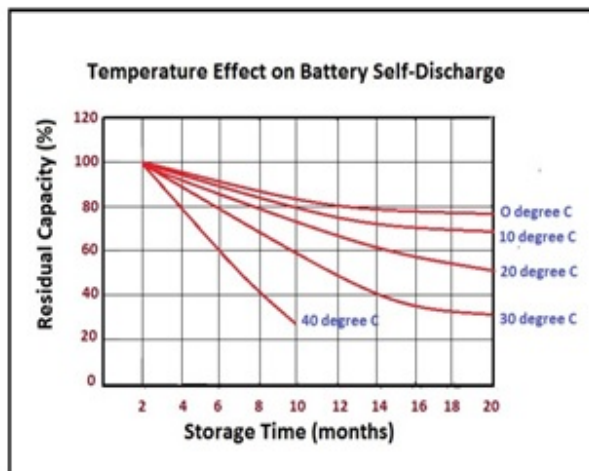
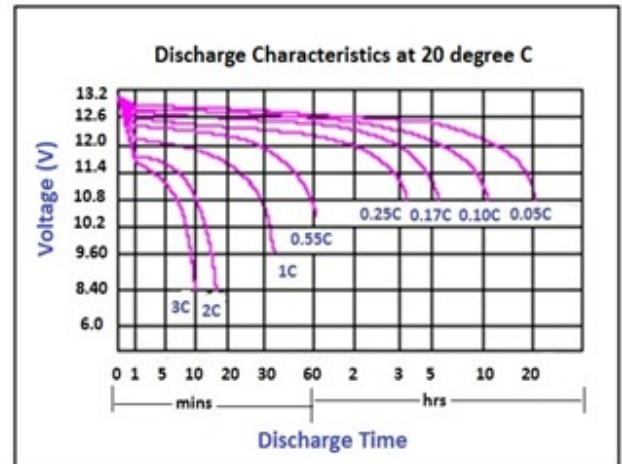
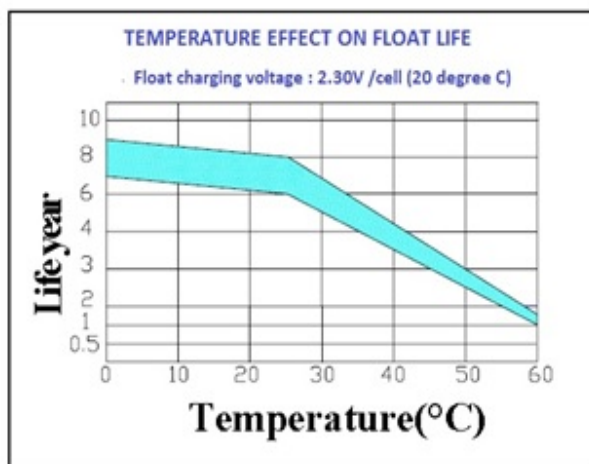
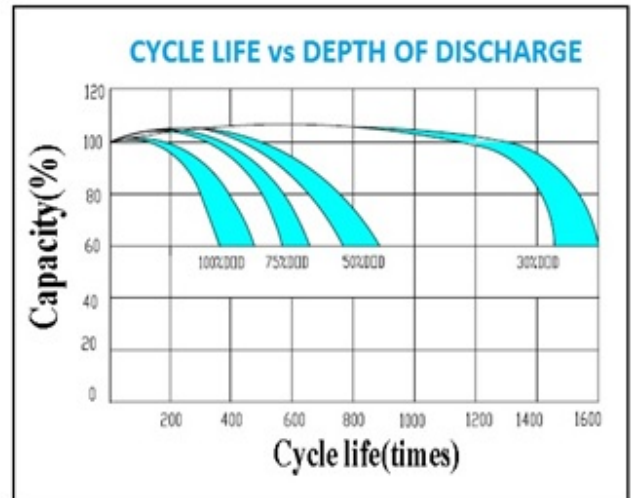
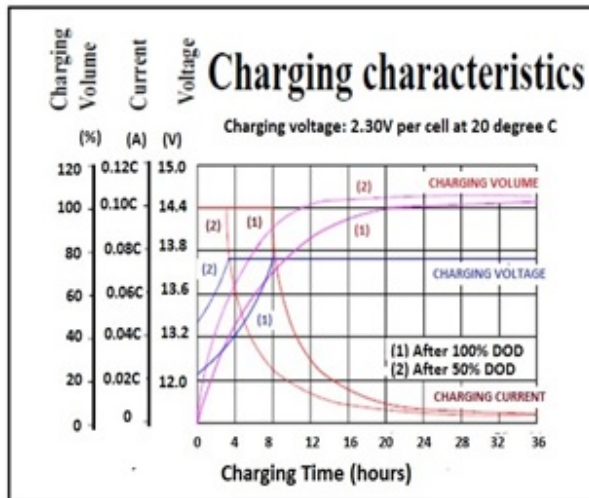
DEEP CYCLE GEL BATTERY

Above data provided from tested sample is generally descriptive only. It is not intent to make or imply any representative; guarantee or warranty with respect to any battery cell. Battery cell designs /specifications are subject to modify without prior notice.

(last review: Jan 2015)

Model: DCG200-12 (Maintenance Free Deep Cycle GEL) for ROMBAT SA

Performance Characteristics



Battery Construction

Component	Positive Plate	Negative Plate	Container and Lid Cover	Safety Valve	Terminal Options	Separator	Electrolyte
Raw Material	Lead Dioxide	Lead	ABS or UL94 V0, Flame Retardant ABS (Option)	Si-Rubber	Inserted Type M8	Absorbed Glass Mat (AGM)	Colloidal silica Gel and Sulfuric Acid

FBInternational

DEEP CYCLE GEL BATTERY

Above data provided from tested sample is generally descriptive only. It is not intent to make or imply any representative; guarantee or warranty with respect to any battery cell. Battery cell designs /specifications are subject to modify without prior notice.

(last review: Jan 2015)