

DC12-120(12V120Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 33.5 Kg (Tolerance ±3%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	F5(M8)/F12(M8)
Max. Discharge Current	1200A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	36.0 A
Reference Capacity	C3 89.1AH
	C5 100.5AH
	C10 114.0AH
	C20 120.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C
	Charge: 0°C~50°C
	Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



DC (Deep Cycle Gel) series is a hybrid GEL battery. It is an AGM battery with 12 years floating design life, ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DC series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and can deliver 450 cycles at 100% DOD. Suitable for pumps, solar and wind system, CATV, marine, RV and deep discharge UPS, and telecommunication, etc.



ISO 9001



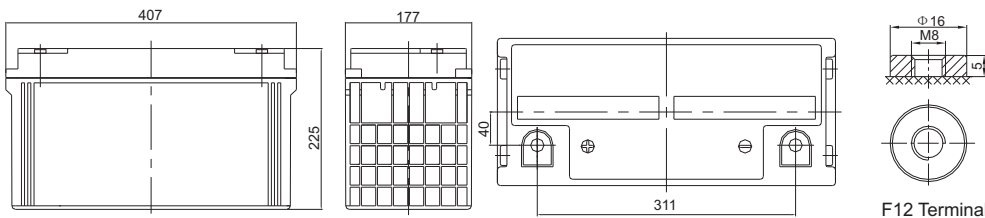
ISO 14001



OHSAS 18001



Dimensions



Length	407±2mm (16.0 inches)
Width	177±2mm (6.97 inches)
Height	225±2mm (8.86 inches)
Total Height	225±2mm (8.86 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	259.6	200.1	116.0	68.3	42.2	31.7	25.1	21.2	14.4	12.2	6.24
1.65V	251.0	194.1	113.6	67.0	41.5	31.3	24.8	20.9	14.3	12.1	6.18
1.70V	239.7	186.2	110.4	65.3	40.5	30.6	24.3	20.5	14.1	11.9	6.10
1.75V	224.6	175.7	106.0	63.0	39.2	29.7	23.7	20.1	13.8	11.7	6.00
1.80V	204.4	161.5	100.0	59.7	37.4	28.5	22.8	19.4	13.4	11.4	5.85
1.85V	176.8	141.8	91.5	55.2	34.8	26.7	21.5	18.4	12.8	10.9	5.64

Constant Power Discharge Characteristics : WPC(25°C)

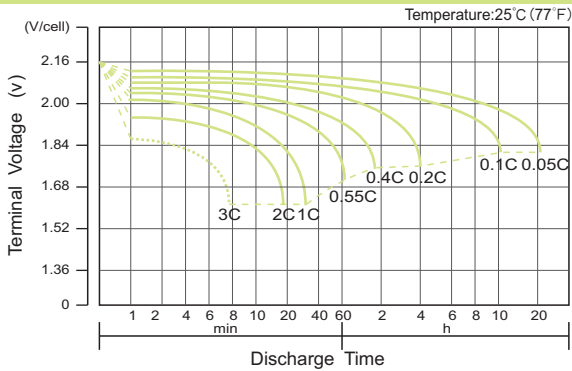
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	465	368	222	134	84.1	63.8	50.7	42.9	29.7	25.3	12.9
1.65V	461	365	220	133	83.3	63.2	50.3	42.6	29.5	25.1	12.8
1.70V	445	353	215	130	81.6	62.1	49.5	42.0	29.0	24.8	12.7
1.75V	425	338	209	126	79.4	60.5	48.4	41.2	28.5	24.4	12.5
1.80V	393	315	199	120	76.1	58.3	46.7	39.9	27.7	23.7	12.2
1.85V	346	281	184	112	71.3	54.9	44.3	38.0	26.5	22.8	11.8

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

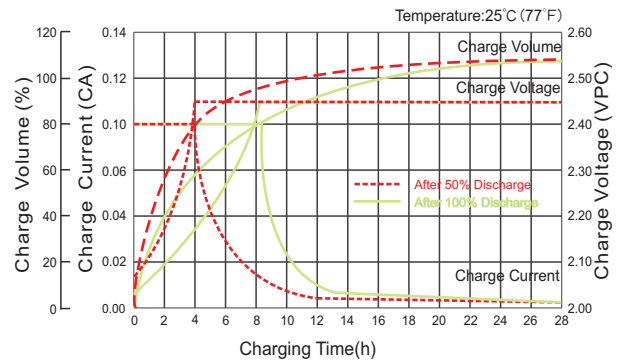
DC12-120(12V120Ah)

AUS_{CELL} No. 1

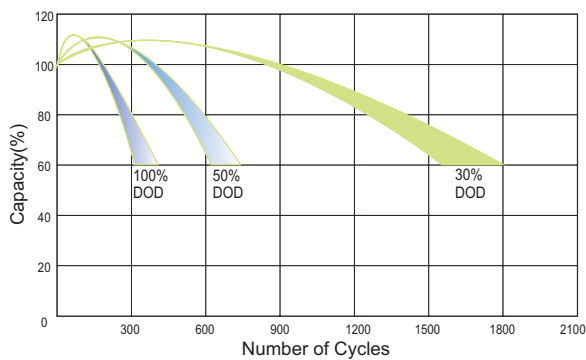
Discharge Characteristics Curve



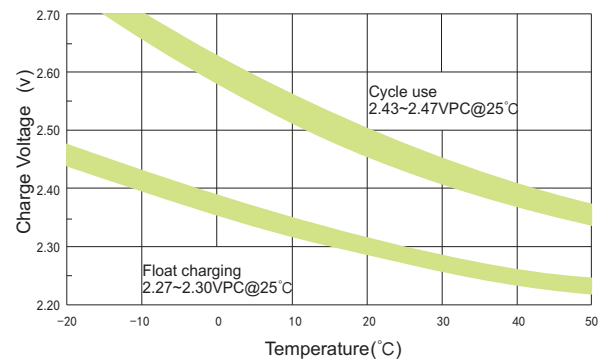
Charge Characteristic Curve for Cycle Use(IU)



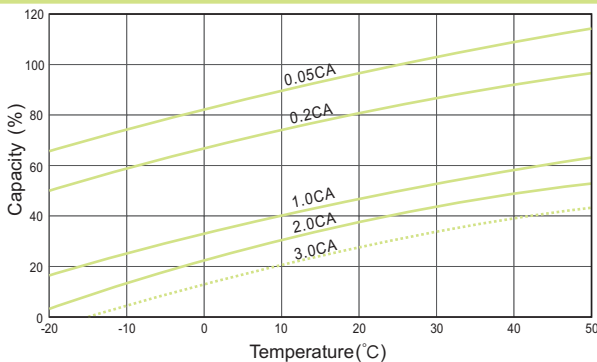
Cycle Life in Relation to Depth of Discharge



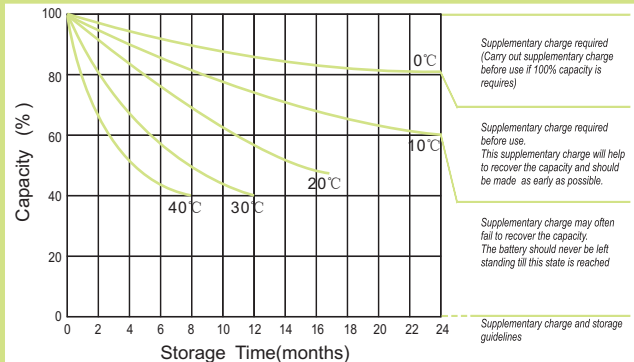
Relationship Between Charging Voltage and Temperature



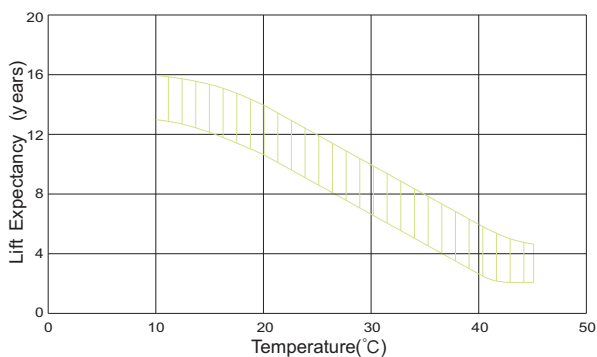
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

