

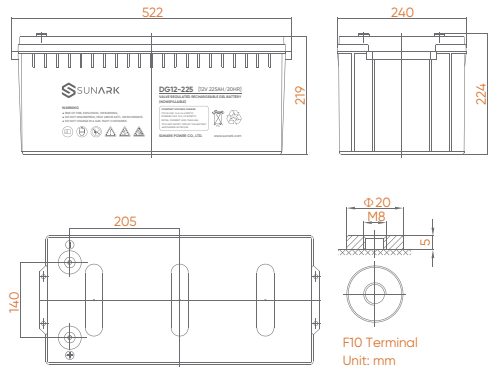
DG12-225

12V 225AH

Deep Cycle Gel Valve Regulated Lead Acid Battery

DG (Deep Cycle GEL) series is pure GEL battery with 20 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and can deliver 450 cycles at 100% DOD.

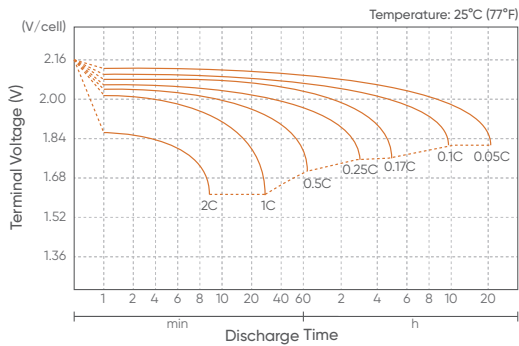


Specification		Dimensions	
Cells Per Unit	6	 Length 522±2mm (20.6 inches) Width 240±2mm (9.45 inches) Height 219±2mm (8.62 inches) Total Height 224±2mm (8.82 inches) Terminal M5 Value 6-7 N*m Terminal M6 Value 8-10 N*m Terminal M8 Value 10-12 N*m	
Voltage Per Unit	12		
Capacity	225Ah@20hr-rate to 1.75V per cell @25°C		
Weight	Approx. 65.0Kg (Tolerance ±3.0%)		
Internal Resistance	Approx. 4.8 mΩ		
Terminal	F16(M8) / F10(M8)		
Max. Discharge Current	2250A (5 sec)		
Design Life	15 years (floating charge)		
Maximum Charging Current	45.0 A		
Reference Capacity	C3 153.6AH C5 170.5AH C10 195.0AH C20 226.0AH		
Float Charging Voltage	13.6V~13.8V @25°C Temperature Compensation: -3mV/°C/Cell		
Cycle Use Voltage	14.2V~14.4V @25°C Temperature Compensation: -4mV/°C/Cell		
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C		
Normal Operating Temperature Range	25°C ± 5°C		
Self Discharge	SunArk 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 charge batteries before using.		
Container Material	A.B.S. UL94-HB, UL94-V0 Optional		

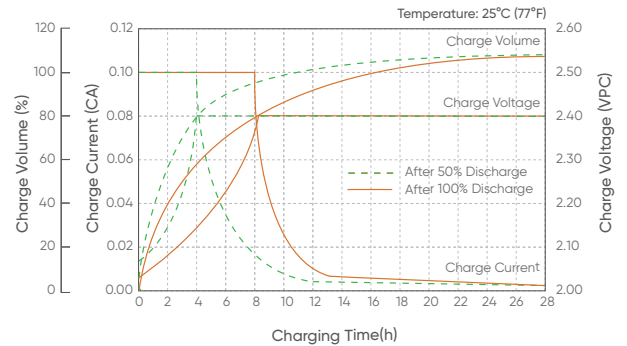
Constant Current Discharge Characteristics: A (25°C)										
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	307.9	206.3	125.8	75.3	52.0	42.6	34.9	24.0	20.3	12.4
1.65V	301.5	204.5	125.2	74.7	51.8	42.4	34.7	23.8	20.1	11.9
1.70V	296.8	203.2	124.0	74.1	51.4	42.2	34.5	23.6	19.9	11.6
1.75V	285.9	200.1	122.9	73.6	51.2	41.8	34.1	23.5	19.7	11.3
1.80V	266.6	193.2	120.0	72.2	49.8	40.9	33.5	23.1	19.5	10.6
1.85V	241.9	182.7	114.0	69.0	47.6	38.9	32.0	22.1	19.0	10.1

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	564	392	242	148	103	84.7	69.4	47.8	40.5	21.9
1.65V	555	387	242	147	103	84.6	69.2	47.6	40.2	21.5
1.70V	549	389	240	146	103	84.4	69.0	47.3	39.9	21.1
1.75V	530	383	238	145	102	83.6	68.1	46.9	39.5	20.7
1.80V	495	371	233	143	99.6	81.7	66.9	46.1	39.1	20.3
1.85V	451	352	223	138	95.3	77.8	64.0	44.2	37.9	19.1

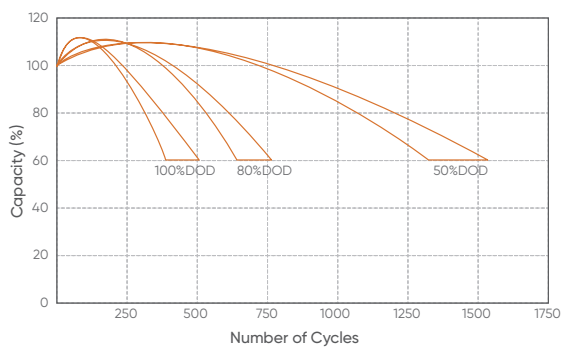
Discharge Characteristics Curve



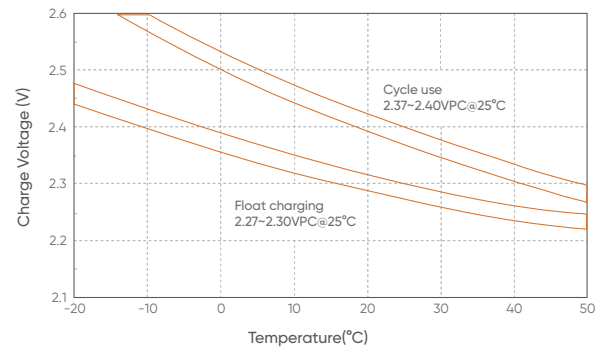
Charge Characteristic Curve for Cycle Use (IU)



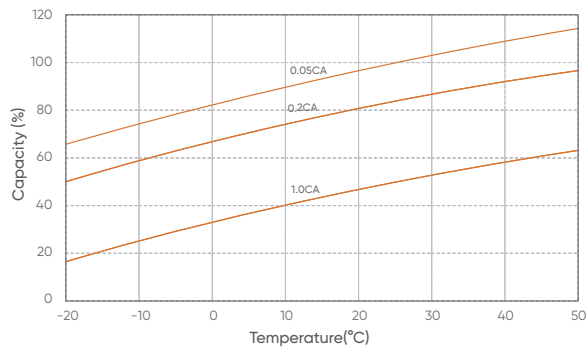
Cycle Life in Relation to Depth of Discharge



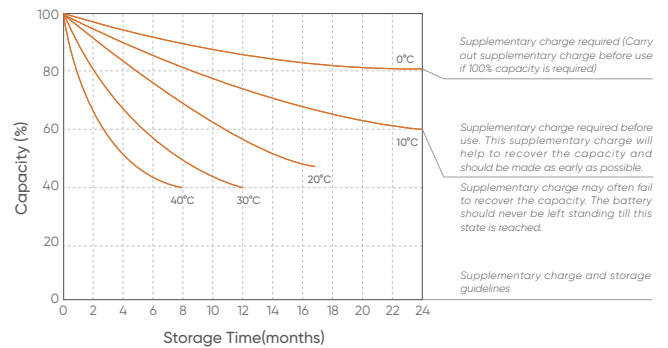
Relationship Between Charging Voltage and Temperature



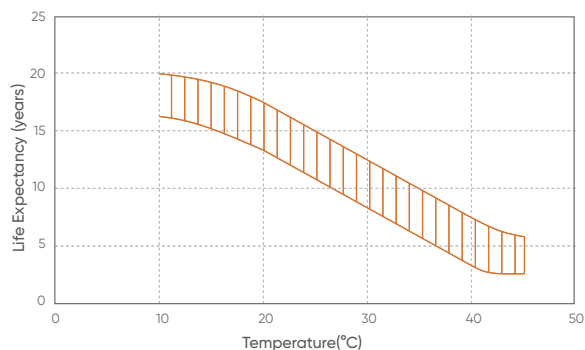
Temperature Effects on Capacity



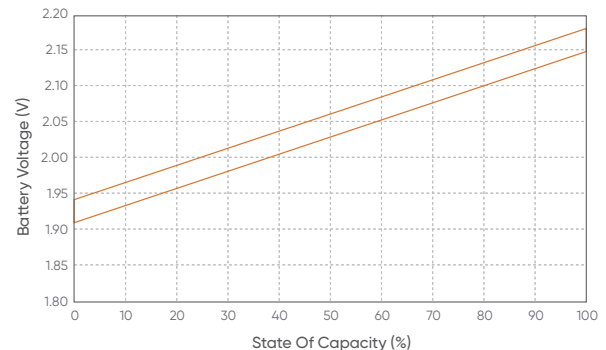
Storage Characteristics



Effect of Temperature on Long Term Life



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



(Note) All above information shall be changed without prior notice, SunArk reserves the right to explain and update the latest information.