

DC 100

GEL DEEP CYCLE
12V | 100Ah | 100 h



Electrical Specifications

Nominal voltage	12V
Nominal capacity	100Ah (C ₁₀₀)
Number of cycles	1250 (30% DOD)
	750 (50% DOD)
	450 (80% DOD)
	300 (100% DOD)
Self discharge	Monthly rate < 3% at 25°C Recharge after 6 months Charge before using

Discharge Specifications

Capacity C ₁₀₀	100Ah
Capacity C ₂₀	87Ah
Capacity C ₁₀	77Ah
Capacity C ₅	68Ah
Max. Discharge Current	882A (5s)

Charge Specifications

Max. Charge Current	18A
Float Charge Voltage	13.6 V to 13.8 V at 25°C Temp. Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V to 14.4 V at 25°C Temp. Compensation: -4mV/°C/Cell

Standards

Material number	UN 2800 ADR 598
DIN/E norms	IEC 61056, IEC 61427, IEC 60896

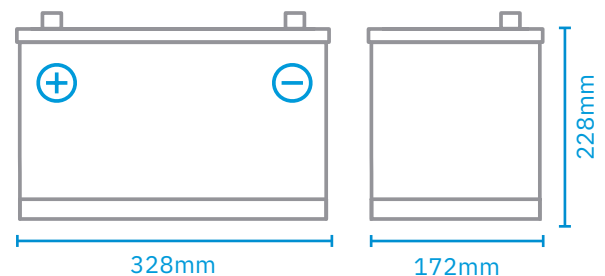
Mechanical Specifications

Measurements (L x W x H)	328 x 172 x 228mm
Approx. Weight	26.6kg
Case Material	A.B.S. UL94-HB
Lid Material	A.B.S. UL94-HB

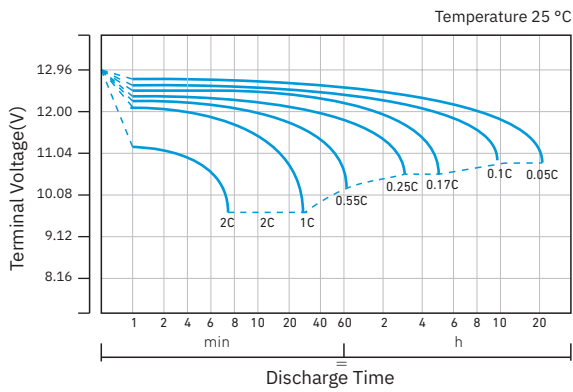
Temperature Specifications

Normal Operating Temperature	25°C ± 5°C
Discharge Temperature	-40°C to 60°C
Charge Temperature	-20°C to 50°C
Storage Temperature	-40°C to 60°C

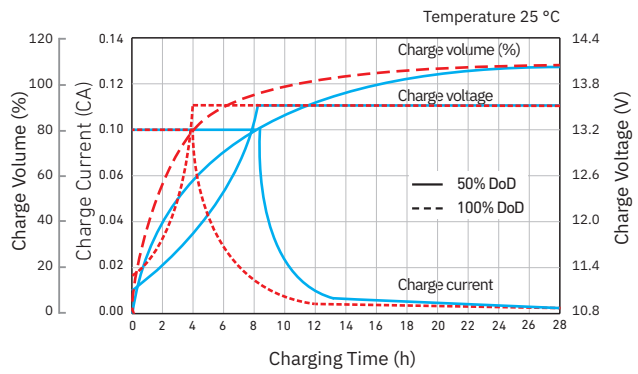
Measurements



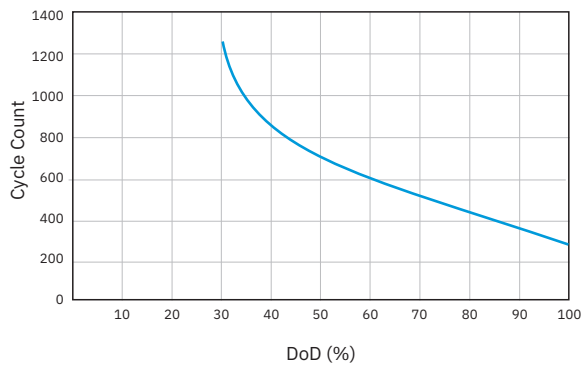
Discharge Characteristics Curve



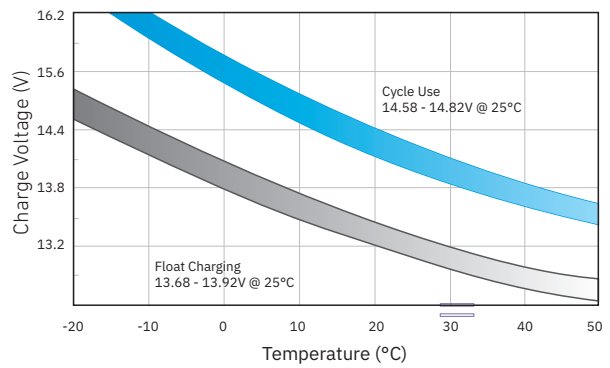
Charge Characteristics Curve For Cycle Use (IU)



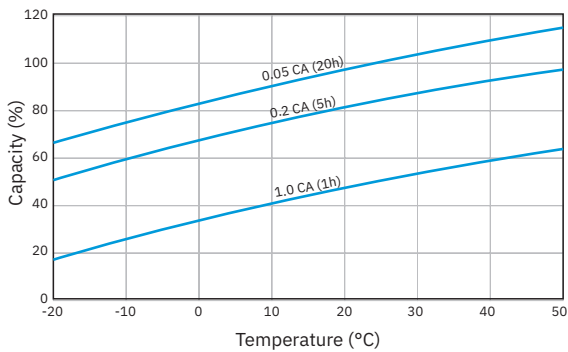
Relationship of Cycle Life and DoD



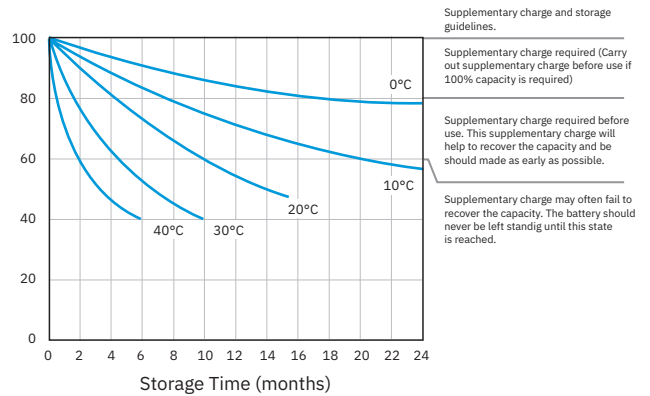
Relationship of Charge Voltage and Temperature



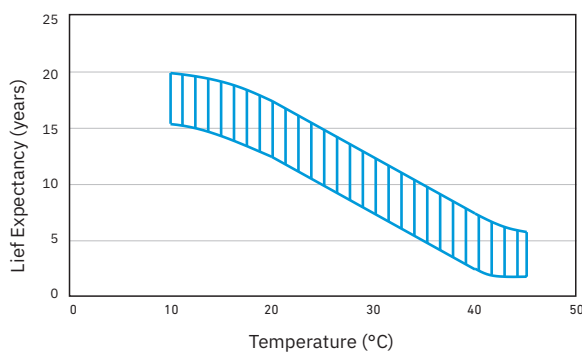
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long-Term Life



Relationship of OCV and State of Charge

