

DC 180

GEL DEEP CYCLE
12V | 180Ah | 100 h



Electrical Specifications

Nominal voltage	12V
Nominal capacity	180Ah (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	180Ah
Capacity C ₂₀	160Ah
Capacity C ₁₀	141Ah
Capacity C ₅	123Ah
Max. Discharge Current	1588A (5s)

Charge Specifications

Max. Charge Current	32A
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

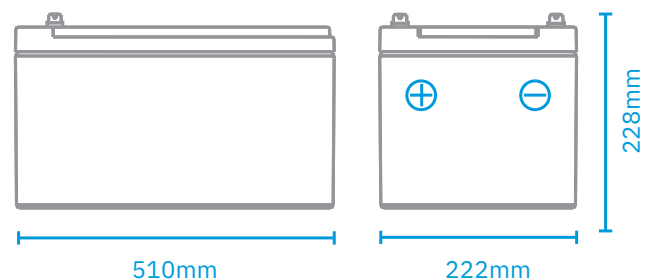
Mechanical Specifications

Measurements (L × W × H)	510 × 222 × 228mm
Approx. Weight	46.7kg
Case Material	A.B.S. UL94-HB
Lid Material	A.B.S. UL94-HB

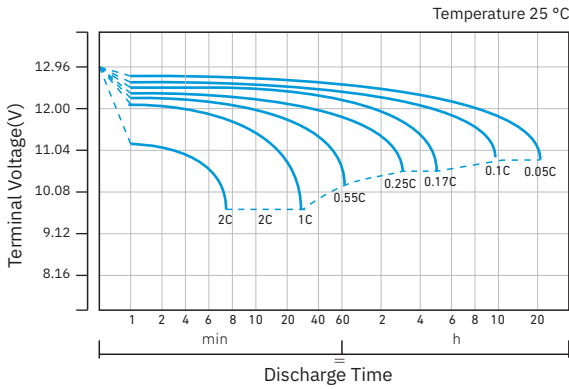
Temperature Specifications

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

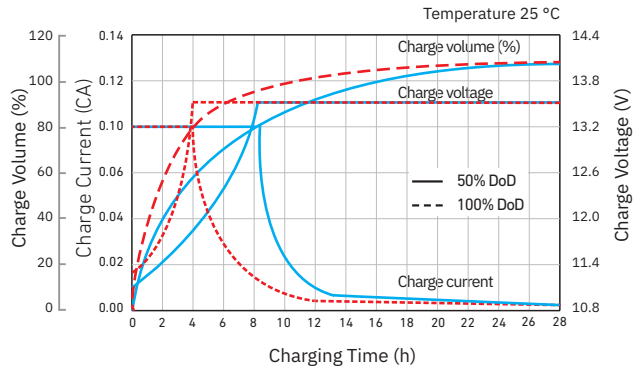
Measurements



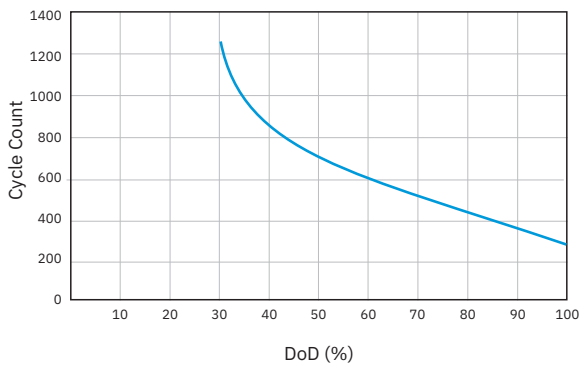
Discharge Characteristics Curve



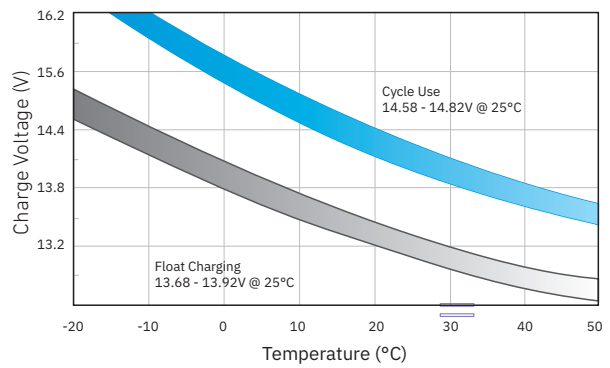
Charge Characteristics Curve For Cycle Use (IU)



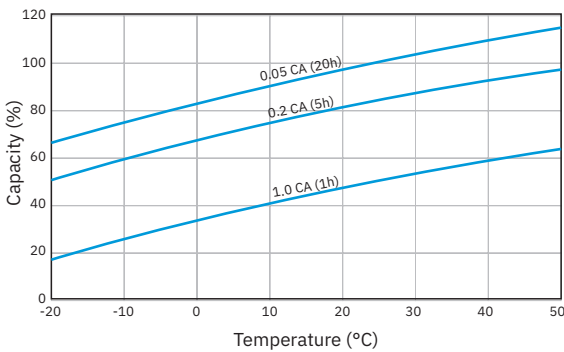
Relationship of Cycle Life and DoD



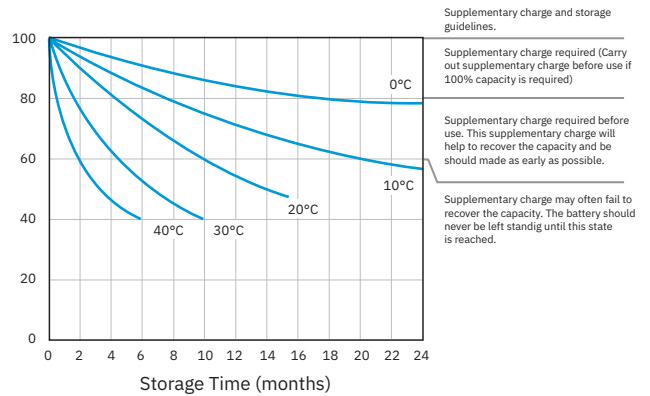
Relationship of Charge Voltage and Temperature



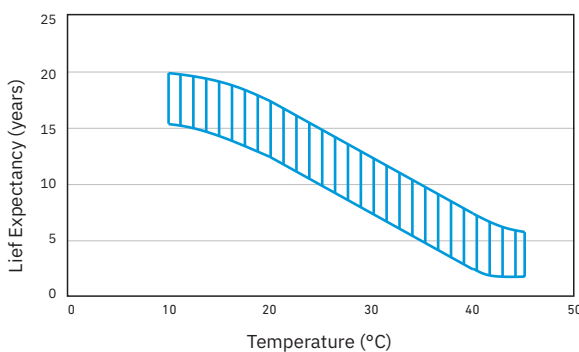
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long-Term Life



Relationship of OCV and State of Charge

