

HSD-NAR12160 - PRODUCT DATA SHEET

Marine & Leisure SIB nfpp 12 V – 160 Ah – 1920 Wh

BLUETOOTH AND WIFI

Electrical specifications

Nominal voltage	12V
Nominal capacity	160 Ah
Rated energy	1920 Wh
Internal resistance	<30 mΩ @ 50% SOC
Cycle life* (80% DoD)	>10000 cycles
Cycle life* (100% DoD)	>6000 cycles
Parallel connection	Yes, up to 4 units
Serial connection	Yes, up to 4 units

* Standard charge @25°C

Discharge specifications

Application	Equipment
Max discharge (continuous)	160 A (1 C)
Peak Discharge	400 A @ 3.5s
Discharge temperature range	-40 °C to 80 °C

Charge specifications

Charge voltage range	13.6 – 13.8 V
Max charge voltage	13.8 V
Float voltage	13.6 V
Max charge current	160 A
Charge temperature range	-20 °C to 45 °C

Standard charge (recommended)

Charge method	CC-CV
Charge current	80 A (0.5 C)
Charge voltage	13.8 V
Cut-off current	8 A (0.05 C)

Mechanical specifications

Dimensions (LxWxH)	485x170x240 mm
Weight	22.0 kg
Terminal type	F-M8
Polarity	ETN1
IP rating	IP54
Cell chemistry	NFPP

Storage specifications

Ideal long term storage temp.	0 °C to 65 °C
Short term storage temp.	-40 °C to 80 °C
Self discharge	<10% per month
Self discharge in sleep mode	<3% per month

Battery monitor functions (mobile app)

Battery status and alarms	YES
State of charge (SOC)	YES
Battery voltage	YES
Charge / discharge current	YES
Estimated recharge time	YES
Battery temperature	YES
State of health (SOH)	YES
Cycle counter	YES

BMS self protection

Over charge voltage	YES
Over charge current	YES
Over discharge voltage	YES
Over discharge current	YES
Over discharge current (peak)	YES
Short circuit protection	YES
Over / under temperature	YES
Automatic cell balancing	YES
Automatic pre-charge heating <0 °C	YES

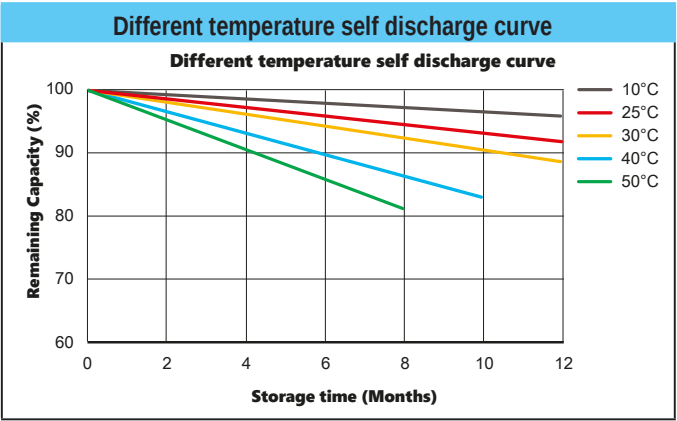
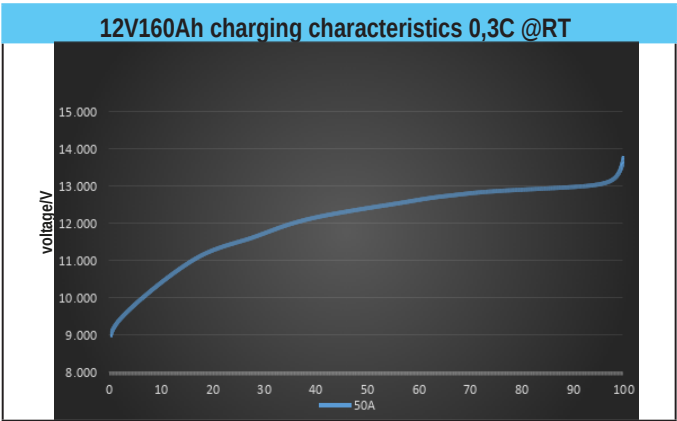
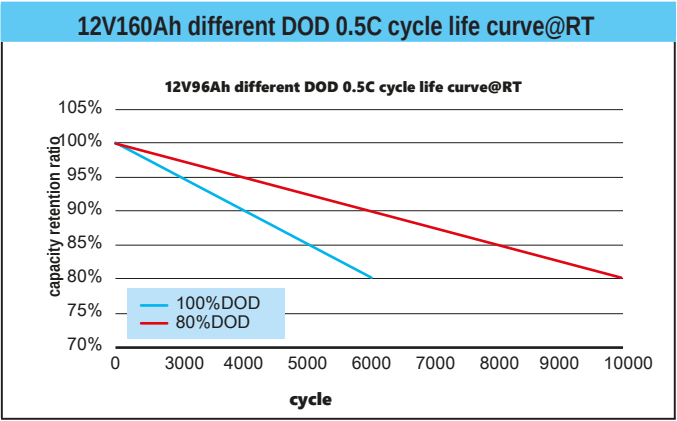
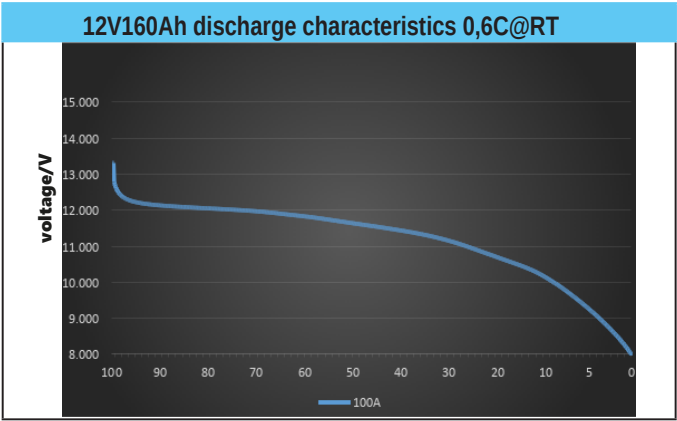
Note: Refer to User Guide for full detailed specifications

IP54  **Bluetooth™** **UN38.3**  



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