

BATTERY DATA SHEET

NORDMAX DUAL LITHIUM BATTERY NMD105LIT



Battery Tech Data

Stored Energy	1 344 Wh	
Rated Capacity (C20)	105 Ah	
Nominal Voltage	12,8 V	
Voltage Range	10 - 14,6 V	
Cell Type	LiFePO4	
Charge Time	Standard	5,5 h
	Rapid	1,5 h
Charge Method CC-CV	Standard	22 A / 14,6 V
	Rapid	100 A / 14,6 V
Max Discharge Current	Surge	150 A (30S)
	Continuous	100 A
Cyclic Life 0,5C / 23°C (75°F)	10 % > 6 000 cycles 100 % > 2 000 cycles	
Temperature Range	Charge	+3° till +45 °C (37°-113°F)
	Discharge	-20 till +55 °C (-4°-131°F)
	Storage	-10 till +45 °C (14°-113°F)
IP Code	IP67 (enclosure)	

Battery State of Charge

SOC	0,1C discharge	OCV
100 %	-	13,4 V
90 %	13, 19 V	13,3 V
80 %	13, 17 V	13,3 V
70 %	13, 15 V	13,3 V
60 %	13, 05 V	13,2 V
50 %	12, 99 V	13,15 V
40 %	12, 98 V	13,14 V
30 %	12,94 V	13,1 V
20 %	12,79 V	12,9 V
10 %	12,61 V	12,8 V

Layout

Length	329 mm (12,95 in)
Width	172 mm (6,77 in)
Height	220 mm (8,66 in)
Weight	13,5 kg (29,7 lbs)
Terminal Layout	1 (M8)
Hold-down	N

BMS-protection

Balance	Current	40 mA
	Voltage	3,55 V/cell
High Temperature (MOSFET temp.)	Protection	85°C (185°F)
	Release	75°C (167°F)
High Temperature Protection (Cell)	Protection	65°C/149°F (charge)
		70°C/158°F (discharge)
	Release	55°C/131°F (charge)
		60°C/140°F (discharge)
Low Temperature Protection (Cell)	Protection	0°C/32°F (charge)
		-20°C/-4°F (discharge)
	Release	10°C/50°F (charge)
		-10°C/14°F (discharge)
Over-charge	Protection	15,4 V (3,85 V/cell)
	Release	14,6 V (3,65 V/cell)
Over-discharge	Protection	9,2 V (2,3 V/cell)
	Release	10,0 V (2,5 V/cell)
Short-circuit	Protection	1 500 A
	Release	Disconnect Load

Max 4 series connection. Max 4 parallel connection. OK if batteries are charged to same voltage before connecting.

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