

LiFe Premium N70



Greater efficiency

Manufactured using cylindrical energy cells allow greater heat dissipation when under load

Use up to 100% of total capacity

Up to 10 time faster charge time than sealed lead acid

Greater than 96% charge efficiency

Captures and stores more solar PV than sealed lead acid

Safety

No venting gasses

Safe LFP (lithium ferro phosphate (LiFePO₄) technology

Built in Battery Management System (BMS) - allowing charging on most standard battery chargers and vehicle alternators.

BMS will protect from over/under voltage, over current, over temperature and short circuit

Reliability and longevity

Designed using cylindrical cells for greater reliability, and heat dissipation

One third the weight and less than half the volume than that of sealed lead acid

Superior cycle life when compared to sealed lead acid

Rated for extreme temperature conditions

LiFe Premium N70 Specification REV02

Installation

Ideal for Caravan and motor home applications

Ideal for secondary vehicle battery

Ideal for street lighting and industrial applications

Ideal for off-grid solar applications

Can be charged using most standard lead acid battery chargers

If charger can be adjusted to suit battery voltages, then this will maximise life



SPECIFICATIONS

	LiFe1213N	LiFe2413N	LiFe4813N
Nominal DC Voltage	12.8V	25.6V	51.2V
Nominal Capacity	1300Wh (1280Wh)/100Ah	1300Wh (1280Wh)/50Ah	1300Wh (1280Wh)/25Ah
Continuous Charge/Discharge	C2 (.5C)/50A	C2 (.5C)/25A	C2 (.5C)/12.5A
Max Current (30Seconds)	150A	75A	37.5A
Charge/Discharge Cycles	2000@ 100% DoD, 25°C / 4000@ 80% DoD, 25°C / 7,000@ 50% DoD 25°C		
Operating Temperature Range	Charge: 0° to 55°C / Discharge -20° to 60°C		
Ideal ambient environment	10 to 40		
Operating Humidity (Non condensating)	95%		
Battery Dimensions	342mm(L) x 172mm (L) x 214mm (H)		
Terminal Connections	M8 bolt		
Weight Module	14kg		
BMS Over Volt cut off	14.6V	29.2V	58.4V
BMS Under Volt cut off	10V	20V	40V
BMS Over Temp cut off	65°C		
Self Discharge	14% Per Annum		
Lithium Composition	Lithium Ferro Phosphate (LiFePO4 or LFP)		
IP Rating	IP52		
Round Trip Efficiency	>96%		
Cooling	Natural Convection		
Parallel Stacking	Yes		
Serial Stacking	Not Available		
Note	Specification subject to change at anytime without notice		

To Maximise Battery life

	LiFe1213N	LiFe2413N	LiFe4813N
Shut Down SoC	20%	20%	20%
DC Volts Shunt Down 0% Load	12V	24V	48V
DC Volts Shut Down 100% Load	11.5V	23V	46V
Recovery / Restart Voltage	13V	26V	52V
Continuous Charge Voltage (Per Warranty)	14V	28V	56V
Float Voltage	13.8	27.6	55.2
Peukerts Exponent	1.02		
100% recharge	7 to 14 days to keep External SoC counter accurate		
Note	Charge details subject to change at anytime without notice		

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