

**IONPACK Ltd****INFINium 48/70/100 Specification****48V 3400Wh LiFePO₄**

OPERATING CONDITIONS	
Nominal Voltage	51.2 V
Nominal Capacity	71 Ah
Total Energy	3.4 kWh
Impedance	50 mΩ
Self-Discharge	~2% per month
Cycle Life at 100% DoD@ 0.2C	3,000 cycles
Series connection	2
Parallel Connection	8

DISCHARGE	
Standard Continuous discharge	100A (20+ min)
Maximum Continuous Discharge Current	150A (10 min)
Peak Discharge Current	200A (1 min)
PCM Discharge Current Cut-off	1000A (3 seconds)
Max Solar Recommended Low Voltage Disconnect	47 V
Short Circuit Protection	200-500μs

CHARGE	
Charge/discharge efficiency	>97% @ 0.5C
Recommended Charge Current	100 A
Peak Charge Current	150 A
PCM Charge Current Cut-Off	250 A
Fully Charged Voltage	56 V

TEMPERATURE

Storage Temperature	-20 to 60°C
Discharge Temperature Range	-10 to 60°C
Charge Temperature Range	5 to 45°C

MECHANICAL	
Chemistry	Cylindrical – LiFePO ₄
Case Dimensions	L405 x W252 x H227 (mm)
Weight	Circa 32 kg
Terminal Type	M8 brass threaded insert
Terminal Torque	≤5 Nm
Casing Type	Anodized Aluminium
Casing IP	IP67
Communication	RS485 via CANBUS

BATTERY MANAGEMENT	
BMS Type	Passive
BMS Location	Internal
Balance Current per Cell	50 mA
Overcharge / Discharge	250 A

SAFETY	
Transportation	UN3480, Class 9

Classification	
Battery Certification	CE, UN38.3, RoHS, IEC62619
UN Certification (Cells)	UN38.3

This information is for technical reference only and should not be used as a basis for product guarantee or warranty.



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DISCHARGE SPECIFICATIONS

Nominal Voltage	51.2 V
1 Sec rate constant power at 20°C	16,850 W/300 A
10 Sec rate constant power at 20°C	10,200 W/200 A
10 Min rate constant power at 20°C	7,150 W/150 A
20+ Min rate constant power at 20°C	7,150 W/150 A
Short circuit current	+1500 A BMS regulated
10 hr rate capacity to 47 V	78.53 Ah

CHARGE SPECIFICATIONS

Bulk Charge Voltage	56-58.4 V
Float charge Voltage*	56-58.4 V
Cyclic (or boost charge) at 20°C	N/A
Charge current	100 A recommended
Charge current peak	150 A max
Charge time at 35 A Bulk charge to 58.4V	2.65 hours
Charge time at 100 A Bulk charge to 57.6V	1.35 hours

RESERVE CAPACITY SPECIFICATIONS

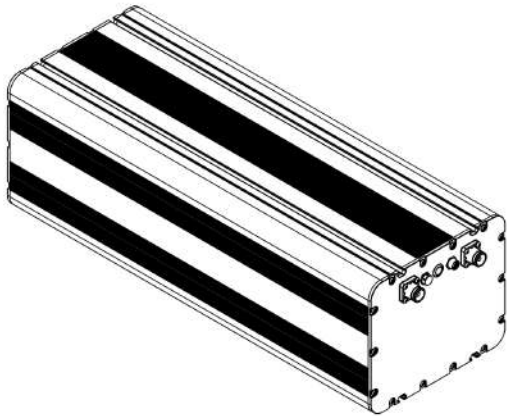
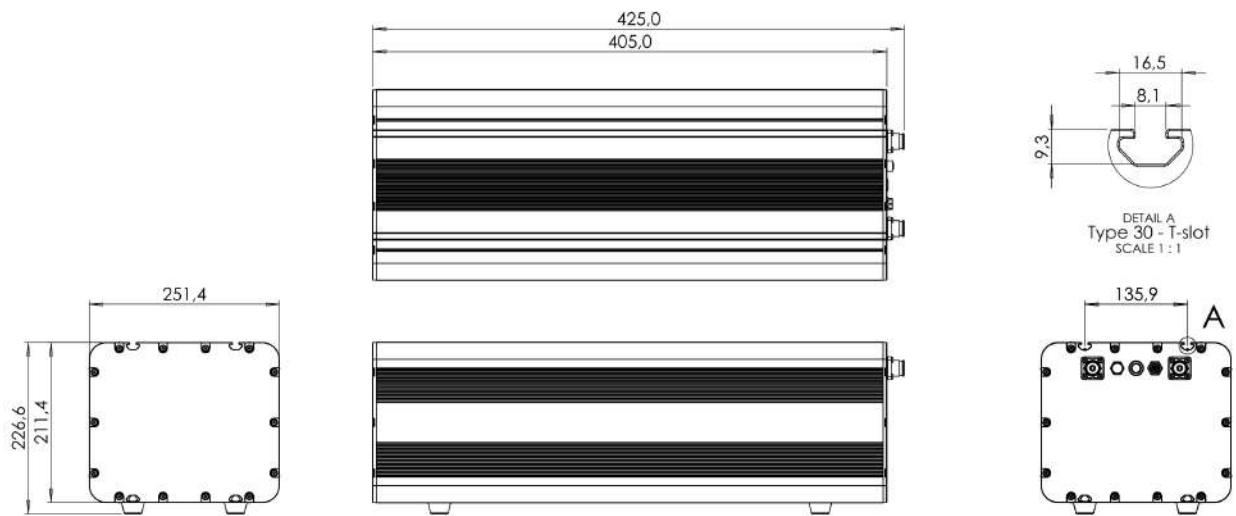
Capacity @ 6A	276 minutes
Capacity @ 25A	155 minutes
2 hour rate	71 Ah
5 hour rate	71 Ah
10 hour rate	71 Ah
20 hour rate	71 Ah

* Lithium iron phosphate batteries do not require a float charge hence the bulk charge voltage and float charge voltage are the same



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			DO NOT SCALE DRAWING	REVISION
			DATE:	01/11/2024
			TITLE:	IONPACK Battery 48-3400
			DWG NO:	4IP41514BS48ALD5F
			SCALE: 1:5	SHEET 1 OF 1
NAME	SIGNATURE	DATE		
DRAWN				
CHECKED				
APPROVED				
INFO				
QA				

