



IONPACK Ltd

INFINIUM
SAHARA HI-TEMP
48V

INFINium HT 48/140/100 Specification 4IP41514B96S48ALB5B

48V 6.800Wh LiFePO4

OPERATING CONDITIONS

Nominal Voltage	51.2 V
Nominal Capacity	141 Ah
Total Energy	6.8k Wh
Impedance	50 mΩ
Self-Discharge	2% per month
Cycle Life at 100% DoD@ 0.2C	2,000 cycles
Series connection	1
Parallel Connection	8

DISCHARGE

Standard Continuous discharge	100 A (20+ min)
Maximum Continuous Discharge Current	150 A (10 sec)
Peak Discharge Current	500 A (3 sec)
PCM Discharge Current Cut-off	1500 A (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 75°C
Discharge Temperature Range	-20 to 75°C
Charge Temperature Range	-5 to 75°C

MECHANICAL

Chemistry	Cylindrical – LiFePO4
Case Dimensions	L680 x W252 x H227 (mm)
Weight	61 kg
Terminal Type	M8 brass threaded insert
Terminal Torque	≤5 Nm
Casing Type	Anodised Aluminium
Casing IP	IP 67
Communication	RS485 via CANBUS

BATTERY MANAGEMENT SUMMARY(see detail)

BMS Type	Passive
BMS Location	Internal
Balance Current per Cell	50 mA
Overcharge / Discharge Current	40 A

SAFETY

Transportation	UN3480, Class 9	
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 - Detail

Nominal Voltage	51.2 V
3 second rate constant power at 20°C	500 A
15 sec rate constant power at 20°C	200 A
3 min rate constant power at 20°C	150 A
10 + min rate constant power at 20°C	150 A
Short circuit current	+1500A - BMS regulated
10 hr rate capacity to 27 V	128 Ah

CHARGE SPECIFICATIONS - Detail

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	35 - 100 A recommended
Charge current peak	150 A max
Charge time at 35 A Bulk charge to 58.4 V	2.6 Hours
Charge time at 100 A Bulk charge to 57.6 V	2.3 Hours

RESERVE CAPACITY SPECIFICATIONS

Capacity @ 6 A	4.6 Hours
Capacity @ 25 A	5.2 Hours
2 Hour rate	141 Ah
5 Hour rate	141 Ah
10 Hour rate	141 Ah
20 Hour rate	141 Ah

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