

HARRIS SOLARIS™

LITHIUM POWER

48V SERIES

CONTACT US TODAY!



1-800-367-7670



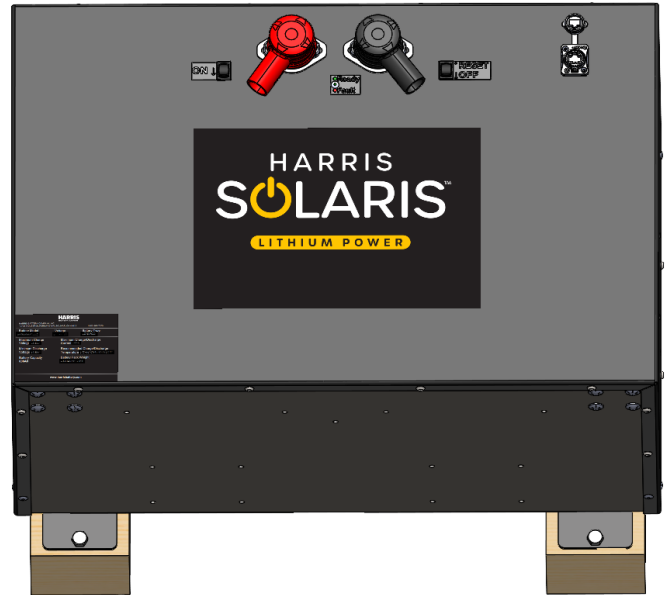
INFO@HARRISBATTERY.COM

FEATURES & BENEFITS

TAKE CONTROL OF YOUR ENERGY WITH HARRIS SOLARIS™ LITHIUM POWER.

Harris Battery has made significant engineering and technology investments to ensure your business is positioned for the growth opportunity that exists in the renewable energy sector. Our in house engineering resources are ready to partner with your business to deliver renewable energy storage and fail safe Grid Tied and Off Grid operations. We support the growing renewable energy installer industry with multiple battery chemistries and balance of system for turn key solutions.

- + Safe LiFePO4
- + Intelligent Battery Management System (BMS)
- + Compatible with most industry standard inverters and chargers
- + Industry-leading design life and warranty
- + 10Year Warranty—5Year Full/5Year Prorated



HARRIS SOLARIS™ 48V	10.2	20.5	31.0
ELECTRICAL SPECIFICATIONS	HSLi48 - 10.2	HSLi48 - 20.5	HSLi48 - 31.0
DC Nominal Voltage	51.2 VDC	51.2 VDC	51.2 VDC
Rated Nominal AH	210 AH	420 AH	640 AH
Rated Nominal Capacity	10.2 KWh	20.5 KWh	31.0 KWh
Capacity @ 25A	480 min	960 min	1440 min
Available AH	200 AH	400 AH	600 AH
Available Energy	10.2 KWh	20.5 KWh	31.0 KWh
Throughput Energy	29 MWh	57 MWh	86 MWh
Efficiency	98%	98%	98%
Max. HSLi Pack in Parallel *MSC Required	36	36	36
Max. HSLi pack in Series	0	0	0

*Multi-stack Controller (MSC)

CHARGE/DISCHARGE SPECIFICATIONS	10.2	20.5	31.0
Max. Continuous Charge/Discharge Amps	100A	200A	300A
Max. Continuous Charge/Discharge KW	5.12 KW	10.24 KW	15.36KW
Peak Charge/Discharge Current (5 sec.)	200A	400A	400A
Min. Disconnect Voltage	49.0 V	49.0 V	49.0 V

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LITHIUM POWER

CHARGE/DISCHARGE SPECIFICATIONS	HSLi48 - 10.2	HSLi48 - 20.5	HSLi48 - 31.0
Recommended Bulk Charge Voltage*	55.0V	55.0V	55.0V
Recommended Absorb Voltage	54.4V-54.6V	54.4V-54.6V	54.4V-54.6V
Recommended Float Voltage	53.6V-54.0V	53.6V-54.0V	53.6V-54.0V
Temperature Compensation Resistance	0	0	0
Equalization	5mohm	5mohm	5mohm
	Disable	Disable	Disable

NOTE: If inverter doesn't have Bulk charge options, set the absorb voltage to 55.0V*

TEMPERATURE SPECIFICATIONS

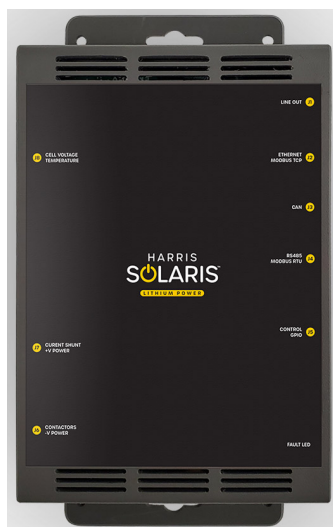
Operating Temperature	41°F-122°F (5°C-50°C)
Storage Temperature	15°F-100°F (-10°C-40°C)
Automatic Heating System	Installed

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	26" x 20" x 18"	28" x 36" x 17"	36" x 37" x 19"
Weight	260lbs	522lbs	735lbs
Tolerance	(+/- .50)	(+/- .50)	(+/- .50)
Terminal Type	M8 x 1.25	M8 x 1.25	M8 x 1.25
Terminal Torque	50-60 in-lbs.	50-60 in-lbs.	50-60 in-lbs.
Case Material	Steel	Steel	Steel
Cell Type-Chemistry	Prismatic - LiFePO4	Prismatic - LiFePO4	Prismatic - LiFePO4

COMPLIANCE SPECIFICATIONS

UL Cell Certifications	UL1973, UN38.3
Cell Test Results	No Explosion, No Fire, No Leakage
BMS	UL 1973, UL 991, 1998
Shipping Classifications	UN3480, Class 9



The proprietary **HARRIS SOLARIS™ Battery Management System (BMS)** exercises overall control of the battery pack to ensure it is operating within the defined parameters....

- Temperature — Cell and overall stack temperature monitoring
- Voltage — Cell and overall stack voltage monitoring
- Current — Current measurement and monitoring
- Open wire protection
- SOC — The State of Charge has an important role in determining the available capacity of the battery pack
- SOH — State of Health is an important indicator of the battery's health
- Manual fault reset functionality
- Fail-safe technology — Including multiple contactors that are controlled by the BMS
- Pre-Charge Circuit – Mitigates high current demand when the battery is turned on. Eliminates high current draw and potential sparks, enabling smooth boot-up on inverter/electronics.