



**CRESLOW ENERGY  
SOLUTIONS**



# SOLARSMART HV 512V 143/114

## Enclosure:

2mm Steel frame with cladding, moved by Forklift or Lifted

## Human Interface:

On / Off / Reset buttons, State of Charge Display (0 to 100%), Main circuit breaker.

## Protection:

Shunt trip circuit breaker sized to suit max current. Protection for overcurrent, cell under & cell over voltage, temperature range monitor, weak cell detection and other critical events. PLC can be programmed for specific protection - Must be specified at time of order.

## Inverter:

SOLARSMART HV is suitable for the ATESS HPS range of hybrid battery inverters. Please contact us for specific Inverter brands.

## Parallel Installation:

SOLARSMART HV can support up to 10 battery packs in parallel for total capacity of 1.43MW.

## Container Solution:

For external/outdoor use - Up to 10 x SOLARSMART HV battery packs can be stacked in a container for total capacity of 1.43MW. Cooling, heating & humidity controlled within container.

## Comments:

Battery pack designed for indoor use only. For optimum battery performance use within ambient temperature range. Do not charge battery pack when temperature is below 0°C. Extended use of battery pack at > 45°C is not recommended.

## Sales Contact: JS

+27 83 655 2066 • [js@energysolution.co.za](mailto:js@energysolution.co.za)

## Technical Contact: Barney

+27 82 459 0499 • [barneyv@energysolution.co.za](mailto:barneyv@energysolution.co.za)

## General: Kriban

+27 84 622 1701 • [kriban@energysolution.co.za](mailto:kriban@energysolution.co.za)

[www.energysolution.co.za](http://www.energysolution.co.za)

Customised lithium battery solutions  
for Home ESS, Forklifts, Golfcarts & E-bike



**LEVEL 1  
B-BBEE**  
135% CONTRIBUTOR

Nominal Voltage [v]	512
Current Capacity [ah]	280
Total Capacity [kwh]	143
Usable Energy @ 80% DoD [kWh]	114
Continuous charge and discharge current [A]	280
Pulse charge and discharge Current [A] (30S)	560
Max/min Operating Voltage [v] (lithium Cells)	584/480
Battery Chemistry	LiFePO4
Cell Specification	3.2V 280A Prismatic cell
Total Weight [kg]	1 500kg
Height x Length x Depth [MT]	2.0 x 1.7 x 0.6
DC POS Connector, [No. x mm2]	2 x 70 POS
DC NEG Connector, [No. x mm2]	2 x 70 NEG
Round Trip Efficiency	96%
External Interface	CAN BUS
On-board Management	Full BMS with protection
Battery Cooling	Natural convection
Suitable Ambient Temperature [°c]	0°C to +35°C
Charge Maximum Temperature [°c]	0°C to +55°C
Discharge Maximum Temperature [°c]	-20°C to +55°C
Warranty	10 years or 4,000 cycles @ 80% DoD
Design Life	16 years, 6,000 cycles @ 80% DoD



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