Multi HS19 Solar 15k

High voltage Inverter/charger with solar input

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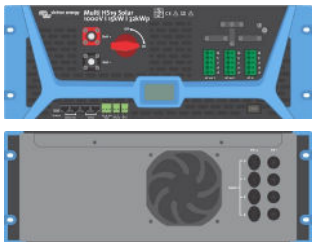


Multi HS19 Solar 15k

Introducing the Victron Multi HS19 Solar

A 19-inch enclosure combining a 15kW high-voltage 3-phase inverter/charger and four MPPT high voltage solar trackers rated at 8kW. The integrated design simplifies installations, saving time and money. Lightweight, efficient, and quiet in operation with low standby power consumption due to high-frequency technology and a new design. Easy mounting with the 19-inch housing, sliding into the same rack as the batteries.

Versatile

Ideal for off-grid, peak-shaving, backup, or feed-in applications.

Powerful inverter/charger

The Multi HS19 Solar features a powerful sinewave inverter/charger at its core with seamless transitions between inverting, grid feed-through, and charging. This bidirectional capability allows charging the battery when excess solar power or AC supply is available or converting from the battery when needed.

Four individual solar inputs

Four individual 8kW, MPPT solar trackers with a wide MPPT voltage range of 100-600V and a 300V startup voltage, totalling a PV capacity of 32kW at 600V.

Battery

Connects to managed CAN-bus batteries via dedicated Battery CAN-bus ports. Supports battery banks from 650 up to 1000V, reducing battery cable thickness and installation costs. Supports a maximum charge power of 33kW at 800V.

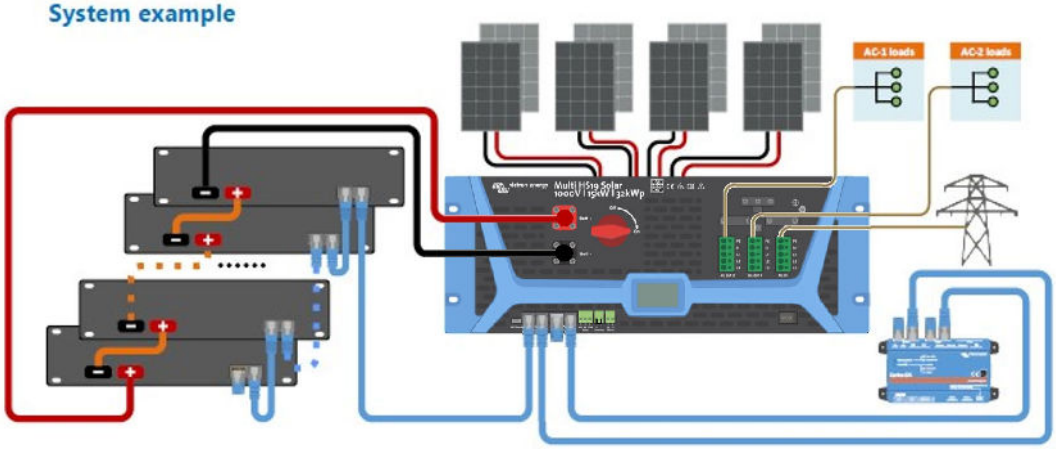


VictronConnect app

Communication and Control

Comprehensive monitoring options include a display for reading operational status, Bluetooth connectivity via the VictronConnect app for configuration, VE.Can communication port for remote monitoring via a GX device on the VRM portal. Equipped with a remote on/off terminal and programmable relay for automated actions, such as starting a generator when the battery is low.

System example



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Accessories



Cerbo GX



Ekrano GX



VE.Can to CAN-bus BMS cable

TECHNICAL SPECIFICATIONS	Multi HS19 Solar 15k
Max. AC input and pass-through current	32A
INVERTER	
Inverter apparent/rated power	15kVA/15kW
Continuous output power up to 40°C (1)	15kW
Peak Power (2)	22kW (5s)
Inverter peak AC current	32A (5s)
Continuous AC current per phase (1)	22A RMS
AC voltage	400Vac ± 10%, 3-phase
AC frequency (range)	50/60Hz (45-65Hz)
Total harmonic distortion	<3%
Maximum efficiency (3)	98%
No load power at 650V battery voltage	50W
AC connections	L1, L2, L3, N, PE
Number of AC inputs / outputs	1 input / 2 outputs
SOLAR	
Maximum open circuit voltage	600V
Max. short circuit / MPP current per string	20A / 13.5A
Number of independent trackers / strings	4 / 4
MPPT operating voltage range	100 - 600V
Minimum solar voltage for wake-up (4)	300V
Maximum total power per string (1)	8kW (32kW total)
Maximum efficiency	99%
BATTERY	
Operating voltage range	650 - 1000V
Maximum discharge current	25A
Maximum charge current	41A
Communication	CAN
Supported batteries (5)	Batteries supporting Victron HV Protocol
FEATURES & PROTECTION	
Parallel operation	No (7)
Overvoltage category	PV II / AC III
Environment condition	Indoor, conditioned
Protections	PV overvoltage / PV over-current / DC insulation resistance / Residual current monitor unit / AC over-current
GENERAL	
19" rack height / Depth / Weight	4U / 71cm / 26.5Kg
AC connectors	Push-in spring connectors: Rigid cable 0.2mm² to 10mm² Flexible cable 0.25mm² to 6mm²
DC connectors	5.7mm Surlok
MC4 connectors	MC4 Female: Staubli (Multi-Contact) PV-ADBP4-S2-UR-2,5 MC4 Male: Staubli (Multi-Contact) PV-ADSP4-S2-UR-2,5
Operating temperature (1)	0 to +60°C (full rated operation up to 40°C)
Cooling	Forced air
Maximum altitude	2000m
Humidity (non-condensing)	95%
Protection grade	IP 20
Programmable relay	Yes (3A, up to 30Vdc)
Data communication	1x battery CAN port, 1x VE.Can port, VE.Direct port, Bluetooth
Remote on/off terminal	Yes
STANDARDS	
Electrical safety	EN-IEC 62109-1, EN-IEC 62109-2, Pollution degree 2
Emission/ Immunity	EN-IEC 61000-3-11, EN-IEC 61000-3-12 IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-4

1) When both the inverter and solar are running at full power, derating on the solar and, on more severe cases, also on the inverter can occur.
2) Peak power and duration depend on start temperature of heatsink. Mentioned times are with cold unit.
3) Efficiency reduces with higher battery voltages.
4) Minimum voltage for communication to start when the Multi HS19 is only powered by solar.
5) Check the manual for the full list of supported batteries.
6) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function.
7) Future hardware revisions will support parallel operation.

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