



The **WISE** Choice

EASTMAN WORLD

Welcome to Eastman World - Your Global Partner in Energy Solutions!



HYBRID INVERTER

Single Phase - 3kW & 6 kW

HYBRID INVERTER SINGLE PHASE 3 & 3.6 kW

The Eastman low voltage Series storage Inverters are designed to increase energy independence for homeowners. The power range is 3kW & 3.6kW, compatible with low voltage (40-60V) batteries.

Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from the public grid.

Thanks for the UPS function (switch time < 10ms), enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading. The Eastman low voltage Series storage inverters integrated with Arc Fault Circuit Interrupter (AFCI) and Rapid Shutdown.



Product Features

 Max. 1.5	 2 MPPT	 <10 ms	 PARALLEL	 INPUT
PV OVERSIZE	MPPT CHANNELS	UPS FUNCTION	PARALLEL	INPUT
1.5 Times PV Oversize	Up to 2 MPPT Channels	Switch Time < 10ms	Max.6 Parallel Stacking	Support Generator

Support for Time-of-use Optimization



Configurable Operation Modes



Arc Fault Circuit Interrupter (AFCI) (Optional)



Build in Anti-feed- in Function



Compact Size and Easy Installation

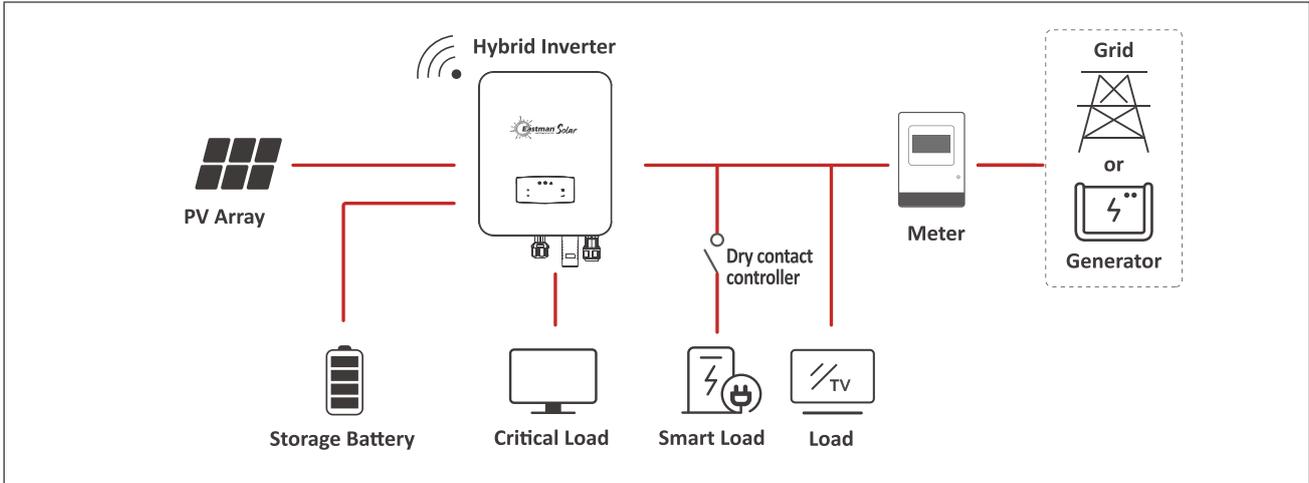


Smart Monitoring & Remote Firmware Upgrade

HYBRID INVERTER (SINGLE PHASE)



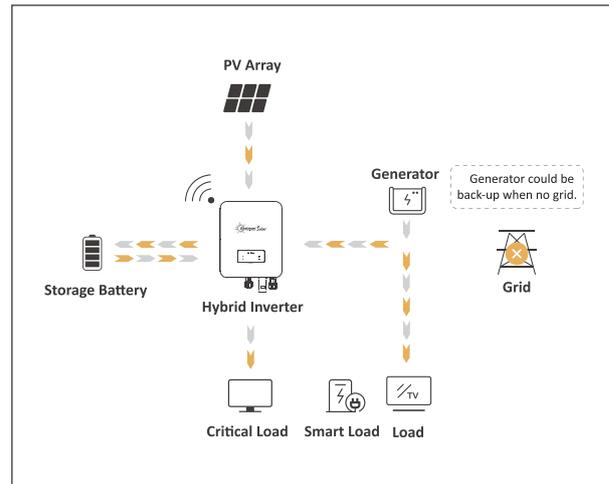
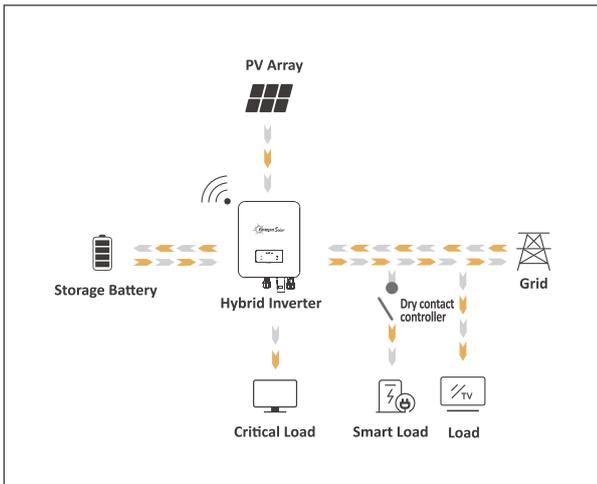
Connection Diagram



Optimizing Self-Consumption (on-grid)

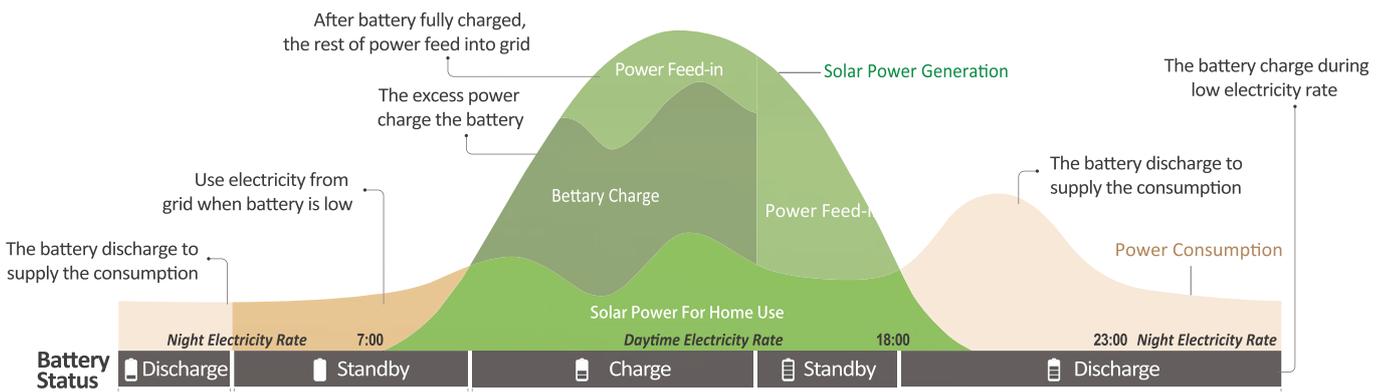
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Emergency Power Supply (off-grid)



Optimizing Self-Consumption Mode

With home energy storage installed, home owners may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak shaving can be applied.



HYBRID INVERTER (SINGLE PHASE)



Product Specifications

PV Input	ES3KSLH	ES3.6KSLH
Max. Input Power (kW)	4.5	5.4
Max. PV Voltage (V)	550	
MPPT Range (V)	80 - 500	
Full MPPT Range (V)	90 - 500	110 - 500
Normal Voltage (V)	360	
Startup Voltage (V)	100	
Max. Input Current (A)	18.5 x 2	
Max. Short Current (A)	26 x 2	
No. of MPP Tracker / No. of PV String	2 / 2	
Battery Port		
Max. Charge/Discharge Power (kW)	3.0	3.6
Max. Charge/Discharge Current (A)	80	
Battery Normal Voltage (V)	51.2	
Battery Voltage Range (V)	40 - 60	
Battery Type	Li-ion / Lead-acid / Sodium metal chloride battery.	
AC Grid		
Max Continuous Current (A)	14.0	17.0
Max Continuous Power (kVA)	3.0	3.6
Nominal Grid Current (A)	13.7 / 13.1	16.4 / 15.7
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230	
Nominal Grid Frequency (Hz)	50 / 60	
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)	
Current THD (%)	< 3	
AC Load Output		
Max Continuous Current (A)	14.0	17.0
Max Continuous Power (kVA)	3.0	3.6
Max Peak Current (A) (10min)	20.5 / 19.6	24.6 / 23.5
Max Peak Power (kVA) (10min)	4.5	5.4
Nominal AC Voltage L-N (V)	220 / 230	
Nominal AC Frequency (Hz)	50 / 60	
Switching Time (ms)	Seamless	
Voltage THD (%)	< 3	
Efficiency		
CEC Efficiency (%)	97.0	
Max. Efficiency (%)	97.6	
PV to Bat. Efficiency (%)	98.1	
Bat. between AC Efficiency (%)	96.8	
Protection		
PV Reverse Polarity Protection	Yes	
Over Current/Voltage Protection	Yes	
Anti-Islanding Protection	Yes	
AC Short Circuit Protection	Yes	
Residual Current Detection	Yes	
Ground Fault Monitoring	Yes	
Insulation Resister Detection	Yes	
PV Arc Detection	Yes	
Enclosure Protect Level	IP65 / NEMA4X	
General Data		
Dimensions (W x H x D, mm)	370 x 535 x 192	
Weight (kg)	18.5	
Topology	Transformerless	
Cooling	Intelligent Fan	
Relatively Humidity	0 - 100 %	
Operating Temperature Range (°C)	- 25 to 60	
Operating Altitude (m)	< 4000	
Noise Emission (dB)	< 25	
Standby Consumption (W)	< 10	
Mounting	Wall Bracket	
Communication with RSD	SUNSPEC	
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G	
Certification & Approvals	NRS097, G98/G99, EN50549-1, C10/C11,VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2, IEC62116, IEC61727, UNE217001:2020	
EMC	EN61000-6-2, EN61000-6-3	

Product Specification are subject to change without prior notice



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