



The **WISE** Choice

EASTMAN WORLD

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



**HYBRID INVERTERS
SPLIT PHASE**

6 ~ 12 kW

Eastman Introduction

Founded in 2006

Established in 2006, Eastman Auto & Power Limited is a well-known name in the field of solar energy, energy storage, and power electronics, boasting a USD 300 million revenue and a dedicated workforce of over 3,000 professionals. Building on the group's decades-long success and maintaining the trust of our partners, Mr. Jagdish Rai Singal ventured into the future of energy with Eastman Auto & Power Limited. Today, the business spans over 25 countries across Asia and Africa, providing the world with cutting-edge products that have set new benchmarks in their respective segments. Driven by innovation, we continually set industry standards, ensuring uninterrupted power supply for residential, commercial, and industrial applications.

Our global solar distribution business provides reliable and high-quality solar solutions, including solar inverters, solar panels, solar batteries (tubular, carbon, gel and lithium) solar pump inverters, solar charge controllers, and more. Our products offer a range of solutions to help you make the switch to clean energy. With us as your unwavering partners, we forge a sustainable future, amplifying global excellence through transformative products and services.



HYBRID INVERTERS

SPLIT PHASE (48V)





Hybrid Inverter Split Phase EM-6KW-HY-UL

- IP65 waterproof and dustproof for various working conditions
- Support multiple input & output- Split Phase 240/208Vac or Single Phase 230Vac
- Built-in AC coupled function
- Built-in WiFi for mobile monitoring (APP is available)
- Accepts second input power source, generator input compatible
- Optional external CT sensor to guarantee %100 self-consumption
- Built-in communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 6 units

MODEL	EM-6KW-HY-UL
Phase	120V/240V Split Phase, 120V/208V Split Phase
Maximum PV Input Power	7500W
Rated Output Power	6000VA/6000W
Maximum Charging Power	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15A
GRID OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC ((P-P)
Output Voltage Range	97 - 132 VAC (P-N)/ 194 VAC - 264 VAC (P-P)
Nominal Output Current	27.3A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85 VAC (P-N) , 170 VAC (P-P) / 90VAC (P-N), 180VAC (P-P)
Acceptable Input Voltage Range	85 - 140 VAC (P-N)/ 170 VAC - 280 VAC (P-P)
Frequency Range	50Hz / 60Hz (Auto Sencing)
Maximum AC Input Current	30A per phase
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 15A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	1 / 15A

Hybrid Inverter 6kW Split Phase



GRID OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220VAC (P-P)
Output Voltage Range	97 - 132 VAC (P-N)/ 194 VAC - 264 VAC (P-P)
Nominal Output Current	27.3 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85 VAC (P-N) , 170 VAC (P-P) / 90VAC (P-N), 180VAC (P-P)
Acceptable Input Voltage Range	85 - 140 VAC (P-N)/170 VAC - 280 VAC (P-P)
Maximum AC Input Current	30A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC(P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	42-62 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
PHYSICAL	
Dimension, D X W X H (mm)	215.5x 515 x 700
Net Weight (kgs)	41
INTERFACE	
Parallel Function	Yes, 6 units
Communication Port	RS-232, RS-485, WIFI, USB
ENVIRONMENT	
Protectin Degree	IP65
Operating Temperature	-25°C to 60°C(>45°C derating)



Hybrid Inverter 12Kw Split Phase

- IP65 waterproof and dustproof for various working conditions
- Support multiple input & output- Split Phase 240/208Vac or Single Phase 230Vac
- Built-in AC coupled function
- Built-in WiFi for mobile monitoring (APP is available)
- Accepts second input power source, generator input compatible
- Optional external CT sensor to guarantee %100 self-consumption
- Built-in communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 6 units



MODEL	EM-12KW-HY-UL
Phase	120V/240V Split Phase, 120V/208V Split Phase
Maximum PV Input Power	12000W
Rated Output Power	10000VA/10000W
Maximum Charging Power	10000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	125VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 18A
GRID OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P), 240 VAC (P-P)
Output Voltage Range	105.5 VAC - 132 VAC - (per phase)
Nominal Output Current	41.5A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85 VAC (per phase) / 90VAC (per phase)
Acceptable Input Voltage Range	85 - 140 VAC (per phase)
Frequency Range	50Hz / 60Hz (Auto Sencing)
Maximum AC Input Current	40A per phase
PV INPUT (DC)	
Maximum DC Voltage	600 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 18A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110 VAC (P-N) / 220VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	125VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A

Hybrid Inverter 12kW Split Phase



GRID OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P), 240 VAC (P-P)
Output Voltage Range	105.5 VAC - 132 VAC - (per phase)
Nominal Output Current	41.5A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	5 VAC (per phase) / 90VAC (per phase)
Acceptable Input Voltage Range	85 - 140 VAC (per phase)
Maximum AC Input Current	40A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P), 240 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	4062 VDC
Maximum Solar Charging Current	200 A
Maximum AC Charging Current	200 A
Maximum Charging Current	200 A
PHYSICAL	
Dimension, D X W X H (mm)	215.5 x 515 x 715
Net Weight (kgs)	45
INTERFACE	
Parallel Function	Yes, 6 units
Communication Port	RS-232, RS-485, WIFI, USB
ENVIRONMENT	
Protectin Degree	IP65
Operating Temperature	-25°C to 60°C(>45°C derating)



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