Eastman®
ENERGY. UNLIMITED.

A GREEN INNOVATION FROM EASTMAN GROUP

The WISE Choice

EASTMAN WORLD

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

OFF-GRID INVERTERS-LV

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.

Off Grid Inverter
EM-1012-MX-LV

- Pure sine wave solar inverter
- Built-in solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance

Product Specifications

MODEL	EM-1012-MX-LV
Rated Inverter Power	1000VA/800W
Parallel Capability	NO
INPUT	
Voltage	110 VAC/120VAC
Selectable Voltage Range	95-140 VAC (For Personal Computers) | 65-140 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	110/120VAC ± 5% (User Selectable)
Surge Power	2000VA
Efficiency (Peak)	90%
Transfer Time	10 ms (For Personal Computers) | 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	12 VDC
Floating Charge Voltage	13.5 VDC
Overcharge Protection	15.5VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	500W
Operating Voltage Range	15 ~ 80 VDC
Maximum PV Array Open Circuit Voltage	102VDC
Maxmum Solar Charge Current	40A
Maximum AC Charge Current	20A
Maximum Charge Current	60A
Maximum Efficiency	98%
Standby Power Consumption	2W
PHYSICAL	
Dimension, D X W X H (mm)	100 X 272 X 355
Net Weight (kgs)	6.8
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C to 55°C
Storage Temperature	-15°C to 60°C

Off Grid Inverter
EM-2024-MX-LV

- Pure sine wave solar inverter
- Selectable high power charging current
- True double-conversion online INVERTER
- Parallel operation with up to 9 units
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

Product Specifications

MODEL	EM-2024-MX-LV
Rated Power	2000VA/2000W
INPUT	
Voltage	120 VAC
Voltage Range	95-140 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4Hz
Power Factor	>0.98 @ Nominal Voltage (100% Load)
THDi	>10%
OUTPUT	
AC Voltage Regulation (Line&Batt. Mode)	120VAC ± 5%
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz
Harmonic Distortion	>3 % THD (Linear Load); >5 % THD (Non-linear Load)
Transfer Time (AC Mode to Batt. Mode)	0ms
Transfer Time (Inverter to Bypass)	4 ms (Typical)
Waveform	Pure sine wave
EFFICIENCY	
Line Mode	>90%
ECO Mode	90%
Battery Mode	
BATTERY	
Battery Voltage	20~32 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	32 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	2000 W
MPPT Range @ Operating Voltage	30~115V
Maximum PV Array Open Circuit Voltage	145VDC
Maxmum Solar Charge Current	80A
Maximum AC Charge Current	60A
PHYSICAL	
Dimension, D X W X H (mm)	120 x 295 x 468
Net Weight (kgs)	11.0
Communication Interface	RS232
PHYSICAL	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Off Grid Inverter
EM-3048-MX-LV

- Zero (Oms) transfer time to protect mission-critical loads
- Pure sine wave solar inverter
- Built-in 80A MPPT solar charger
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with up to 9 units
- External WiFi module (Optional)

Product Specifications

MODEL	EM-3048-MX-LV
Rated Power	3000VA/3000W
INPUT	
Voltage	120 VAC
Voltage Range	95-140 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4Hz
Power Factor	>0.98 @ Nominal Voltage (100% Load)
THDi	<10%
OUTPUT	
AC Voltage Regulation (Line&Batt. Mode)	120VAC ± 5%
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz
Harmonic Distortion	<3 % THD (Linear Load); >5 % THD (Non-linear Load)
Transfer Time (AC Mode to Batt. Mode)	0ms
Transfer Time (Inverter to Bypass)	4 ms (Typical)
Waveform	Pure sine wave
EFFICIENCY	
Line Mode	>90%
ECO Mode	98%
Battery Mode	92%
BATTERY	
Battery Voltage	40~64 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	64 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	4000 W
MPPT Range @ Operating Voltage	60~115V
Maximum PV Array Open Circuit Voltage	145VDC
Maxmum Solar Charge Current	80A
Maximum AC Charge Current	60A
PHYSICAL	
Dimension, D X W X H (mm)	120 x 295 x 468
Net Weight (kgs)	11.5
Communication Interface	RS232
PHYSICAL	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Off Grid Inverter
EM-3024-MX-LV

- Zero (Oms) transfer time to protect mission-critical loads
- Pure sine wave solar inverter
- Built-in 80A MPPT solar charger
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with up to 9 units
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Product Specifications

MODEL	EM-3024-MX-LV
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Voltage Range	95-140 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4Hz
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Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz
Harmonic Distortion	<3 % THD (Linear Load); >5 % THD (Non-linear Load)
Transfer Time (AC Mode to Batt. Mode)	0ms
Transfer Time (Inverter to Bypass)	4 ms (Typical)
Waveform	Pure sine wave
EFFICIENCY	
Line Mode	>90%
ECO Mode	98%
Battery Mode	92%
BATTERY	
Battery Voltage	40~64 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	64 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	4000 W
MPPT Range @ Operating Voltage	60~115V
Maximum PV Array Open Circuit Voltage	145VDC
Maxmum Solar Charge Current	80A
Maximum AC Charge Current	60A
PHYSICAL	
Dimension, D X W X H (mm)	120 x 295 x 468
Net Weight (kgs)	11.5
Communication Interface	RS232
PHYSICAL	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

Off Grid Inverter Split Phase
EM-6048-MX-LV2

- Built-in transformer, supporting split phase operation
- Self-consumption
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current up to 120A
- Detachable LCD control module with multiple communications
- Built-in WI-FI for mobile monitoring (App is available)
- Reserved communication port for BMS (R$485)
- Parallel operation up to 9 units

MODEL	EM-6048-MX-LV2
Phase	Split Phase
Maximum PV Input Power	6000W
Rated Output Power	6000W
Maximum Charging Power	5000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	110VDC / 120 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	110-120VAC (L-N) / 220-240VAC (L1-L2)
Output Voltage Range	93.5 - 126.5 VAC for 110VAC: 102 -138 VAC for 120VAC
Nominal Output Current	27.3A for 110VAC, 25A for 120VAC
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID, PERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	110VDC / 120 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	65 - 140 VAC (Appliances) or 95 - 140 VAC (Pesonal Computer}
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	110-120VAC (L-N) / 220-240VAC (L1-L2)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 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)	138.4x 365 x 593.6
Net Weight (kgs)	26
INTERFACE	
Communication Port	USB, RS-232, Dry Contact and WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C

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