



RELIABLE POWER WHEREVER YOU ARE

INVERTER/CHARGERS

INTERCONNECTION SYSTEM EQUIPMENT

REMOTE CONTROLS

ACCESSORIES


Sensata
Technologies

The World Depends on Sensors and Controls

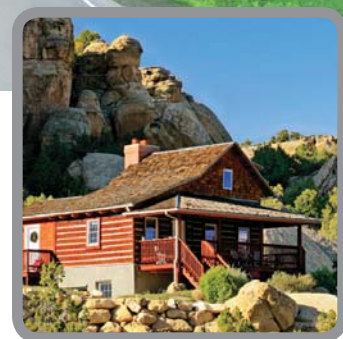
ABOUT SENSATA TECHNOLOGIES

The name Sensata comes from the Latin word **sensata**, meaning “those gifted with sense”. To complement our business and name, our logo is inspired by Braille, the writing system based on touch.

Our highly engineered devices satisfy the world’s growing need for safety, energy efficiency, and a clean environment. These are devices that improve safety, efficiency and comfort for millions of people every day and are used in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air conditioning, data, telecommunications, recreational vehicle and marine applications.

Until 2006, we were called Texas Instruments Sensors & Controls. Today we are the world’s leading supplier of sensors and controls across a broad range of markets and applications.

From integrated manufacturing to state-of-the-art environmental practices and a full spectrum of technical and analytical services, Sensata Technologies remains committed to helping its customers find leading-edge technology solutions to meet today’s market needs.



THE MAGNUM-DIMENSIONS BRAND

The Magnum-Dimensions brand began as two well-known inverter companies, Dimensions Inverters and Magnum Energy. Dimensions Inverters joined Sensata Technologies in 2007 and Magnum Energy in 2014. Under the Magnum-Dimensions brand, Sensata Technologies continues to manufacture exceptional inverters, inverter/chargers, and accessories catering to mobile applications, including utilities, corporate fleets, RV, marine, and trucks; renewable energy applications, and the export market.

Manufactured in Everett, Washington, and St. Paul, Minnesota, and shipped worldwide, our products use the highest quality components to respond to the extreme

conditions of variable climates. Our dedicated staff of engineering, manufacturing, and customer service professionals work closely with customers to design and build some of the industry’s most reliable, advanced, and cost effective inverters, inverter/chargers and accessories.

Offering both sine wave and modified sine wave models ranging from 300 to 12,000 watts – in single and three-phase topology – and the ability to accommodate input ranges from 12 to 300 VDC, the Magnum-Dimensions product line has the inverter or inverter/charger to meet your needs.

INVERTER/CHARGERS



MM-AE SERIES INVERTER/CHARGER

Waveform	Modified Sine Wave	Continuous Output	600 and 1500 VA output available
Battery Voltage	12 & 24 volt battery voltage	Model Numbers	MM612AE, MM1512AE, MM1524AE
Ideal For	Renewable Energy Systems: Off-grid and Back-up power		

- Power factor corrected (PFC) charger
- Standard 20 amp transfer relay
- Lightweight, compact, reliable inverter/charger
- Low/high battery, current overload, and circuit breaker protection



MS SERIES INVERTER/CHARGER

Waveform	Pure Sine Wave	Continuous Output	2000, 2800, and 4000 VA output available
Battery Voltage	12, 24, and 48 volt battery voltage	Model Numbers	MS2000, MS2000-15B, MS2000-20B, MS2012, MS2012-15B, MS2012-20B, MS2024, MS2812, MS4024 (series stackable), MS4048
Ideal For	Renewable Energy Systems: Off-grid and Back-up power		

- Power factor corrected (PFC) charger
- Lightweight aluminum base and cover provides noise reduction and corrosion resistance
- Listed to UL/cUL 458, UL 1741, CSA C22.2 #107.1-01, meets KKK-A-1822E standard
- 60 amp transfer relay



MS-PAE 120/240V SERIES INVERTER/CHARGER

Waveform	Pure Sine Wave	Continuous Output	4000 and 4400 VA output available
Battery Voltage	24 and 48 volt battery voltage	Model Numbers	MS4024PAE, MS4448PAE
Ideal For	Renewable Energy Systems: Off-grid and Back-up power		

- 120/240 volt output in one unit without series stacking
- Power factor corrected (PFC) charger
- Parallel up to four MS-PAEs for up to 17.6kw
- Listed to ANSI / UL1741 1st ed. and CSA C#22.2 No. 107.1-01



RD SERIES INVERTER/CHARGER

Waveform	Modified Sine Wave	Continuous Output	1800, 2200, 2800, and 3900 VA output available
Battery Voltage	12 and 24 volt battery voltage	Model Numbers	RD1824, RD2212, RD2824, RD3924
Ideal For	Renewable Energy Systems: Off-grid and Back-up power		

- Power factor corrected (PFC) charger
- Five-stage battery charging
- Listed to UL1741
- Convenient switches and large, accessible AC access cover

HYBRID



MSH-RE SERIES HYBRID INVERTER/CHARGER

Waveform	Pure Sine Wave	Continuous Output	4000 VA output available
Battery Voltage	24 volt battery voltage	Model Numbers	MSH4024RE
Ideal For	Renewable Energy Systems: Off-grid and Back-up power		

- True hybrid technology pulls power from multiple sources to power loads
- Load support allows inverter to run larger loads from smaller generators
- Power factor corrected (PFC) charger
- Listed to UL/cUL 1741 and CSA C22.2 #107.1-01

PANEL SYSTEMS



MMP PANEL

No of Inverter/Chargers One inverter/charger

Includes One DC breaker – 175A or 250A, One AC bypass breaker – 30A dual pole or 60A single pole, One AC input breaker – 30A dual pole or 60A single pole, 500A/50mv DC shunt, DC buss bars for battery positive and negative, Din rail or back mount for optional DC mini breakers – will hold up to eight breakers, Inverter hood

Output 120 VAC or 120/240 VAC output

Model Numbers MMP250-30D, MMP250-60S, MMP175-30D, MMP175-60S

Ideal For Renewable Energy Systems: Off-grid and Back-up power

- Pre-wired for fast installation, saving labor costs
- Small footprint
- Front-mounted breakers and remote (optional)
- Listed to UL1741 and CSA C22.2 107-01



MPSL PANEL - SINGLE ENCLOSURE, LOW CAPACITY

No of Inverter/Chargers Up to two inverter/chargers

Includes One DC breaker – 175A or 250A, One 60A AC bypass breaker, 500A/50mv DC shunt, Inverter AC input protection, Inverter hood

Output 120 VAC or 120/240 VAC output

Model Numbers MPSSL175-30D, MPSSL250-30D, MPSSL250-60S

Ideal For Renewable Energy Systems: Off-grid and Back-up power

- Pre-wired for fast installation, saving labor costs
- Expandable: start with one enclosure and inverter and expand to two in the future with ease
- Front-mounted breakers and remote (optional)
- Five-year warranty



MPSH PANEL - SINGLE ENCLOSURE, HIGH CAPACITY

No of Inverter/Chargers Up to three inverter/chargers

Includes One DC breaker – 175A or 250A, One 125A AC bypass breaker, 1000A/100mv DC shunt, Inverter AC input protection, Inverter hood

Output 120 VAC or 120/240 VAC output

Model Numbers MPSH175-30D, MPSH250-30D

Ideal For Renewable Energy Systems: Off-grid and Back-up power

- Pre-wired for fast installation, saving labor costs
- Expandable: start with one enclosure and inverter and expand to three in the future with ease
- More power capacity with 125A bypass breaker and 1000A DC shunt
- Five-year warranty



MPDH PANEL - DUAL ENCLOSURE, HIGH CAPACITY

No of Inverter/Chargers Up to four inverter/chargers

Includes Two DC breakers – 175A or 250A, One 125A AC bypass breaker, 1000A/100mv DC shunt, Inverter AC input protection, Two inverter hoods

Output 120 VAC or 120/240 VAC output

Model Numbers MPDH175-30D, MPDH250-30D

Ideal For Renewable Energy Systems: Off-grid and Back-up power

- Pre-wired for fast installation, saving labor costs
- Expandable: start with the enclosures and two inverters and expand to four in the future with ease
- More power capacity with 125A bypass breaker and 1000A DC shunt
- Five-year warranty

PANEL ACCESSORIES

MPX Series	Extension box. Each fits one MS-PAE	Product	Model Number(s)	Works With
Model Number	Works With	Backplate	BP-MMP	MMP Panel
MPXS175-30D-L	MPSSL175-30D, MPSH175-30D	Backplate - Single	BP-S	MPSL, MPSH, MPXS, MPXD
MPXS250-30D-L	MPSSL250-30D, MPSH250-30D	Backplate - Dual	BP-D	MPSL, MPSH, MPDH, MPXS, MPXD
MPXS175-30D-R	MPSSL175-30D, MPSH175-30D	AC Breaker - 30A, Dual pole	BR-AC30D	MPSL-30D, MPSH-30D, MPDC-30D
MPXS250-30D-R	MPSSL250-30D, MPSH250-30D	AC Breaker - 60A, Single pole	BR-AC60S	MPSL-60S
MPXS250-60S-L	MPSSL250-60S	DC Breaker - back mount	BR-DC75-BM, BR-DC100-BM	MMP, MPSSL, MPSH, MPDH, MPXS, MPXD
MPXS250-60S-R	MPSSL250-60S	DC Breaker - high capacity	BR-DC175, BR-DC250	MMP, MPSSL, MPSH, MPDH, MPXS, MPXD
MPXD175-30D-L	MPDH175-30D	DIN Rail Breaker (125VDC)	BR-DC100-DIN	PT-100 on MMP & MP - Battery side 100A
MPXD250-30D-L	MPDH250-30D	DIN Rail Breaker (250 VDC)	BR-PV*-DIN *10, 15, 20, 30, 40, 50 (amps)	PT-100 on MMP & MP - PV side
MPXD175-30D-R	MPDH175-30D			
MPXD250-30D	MPDH250-30D			

CONTROLLERS



PT-100 CHARGE CONTROLLER

- Model Numbers**
- PT-100
 - MPPT charge controller designed to harvest maximum available energy and deliver it to the batteries
 - Easily integrate into an MMP or MP system
 - A single controller supports up to a 6600 watt PV array



ACLD LOAD DIVERSION CONTROLLER

- Model Numbers**
- ACLD-40
 - Add three-stage charging to your AC-coupled system
 - Controls up to 4000 watts of excess power to prevent battery overcharge
 - Use common, resistive AC household loads

ACCESSORIES



AUTOMATIC GENERATOR START MODULE (AGS)

- Model Numbers**
- ME-AGS-S
 - ME-AGS-N
 - The AGS will automatically start your generator based on low battery condition or the inside room temperature
 - Compatible with most major generator brands
 - The ME-AGS-S does not require an inverter/charger



BATTERY MONITOR KIT (ME-BMK)

- Model Numbers**
- ME-BMK
 - ME-BMK-NS (no shunt)
 - The ME-BMK acts as a “fuel gauge” for your batteries, monitoring their state of charge and then providing this information in an easy-to-understand display via the ME-RC or ME-ARC remotes



REMOTE (ME-ARC)

- Model Numbers**
- ME-ARC50
 - This remote offers simple push button operation and a rotary encoder knob to quickly scroll through menus
 - Easy-to-read LCD screen and at-a-glance LED displays
 - Critical settings are saved even if the power is disconnected



MAGWEB WEB MONITORING

- Model Numbers**
- ME-MW-W (wireless)
 - ME-MW-E (ethernet)
 - Remotely monitor your Magnum-Dimensions inverter, ME-BMK, and ME-AGS via your web browser
 - Provides live and historical conditions



ROUTER (ME-RTR)

- Model Numbers**
- ME-RTR
 - Combines all the functionality of the ME-ARC remote with a communication hub for MS-PAE inverter/chargers
 - Program all MS-PAEs in sync with the ME-RTR

ASK ABOUT THE EXTENDED LIST OF MAGNUM-DIMENSIONS ACCESSORIES, INCLUDING

Charge Controller Bracket (ME-CCB)

Circuit Breakers

Conduit Boxes

Fuse Blocks (Holders & Covers)

ME-RC Remotes

MM-RC Remotes

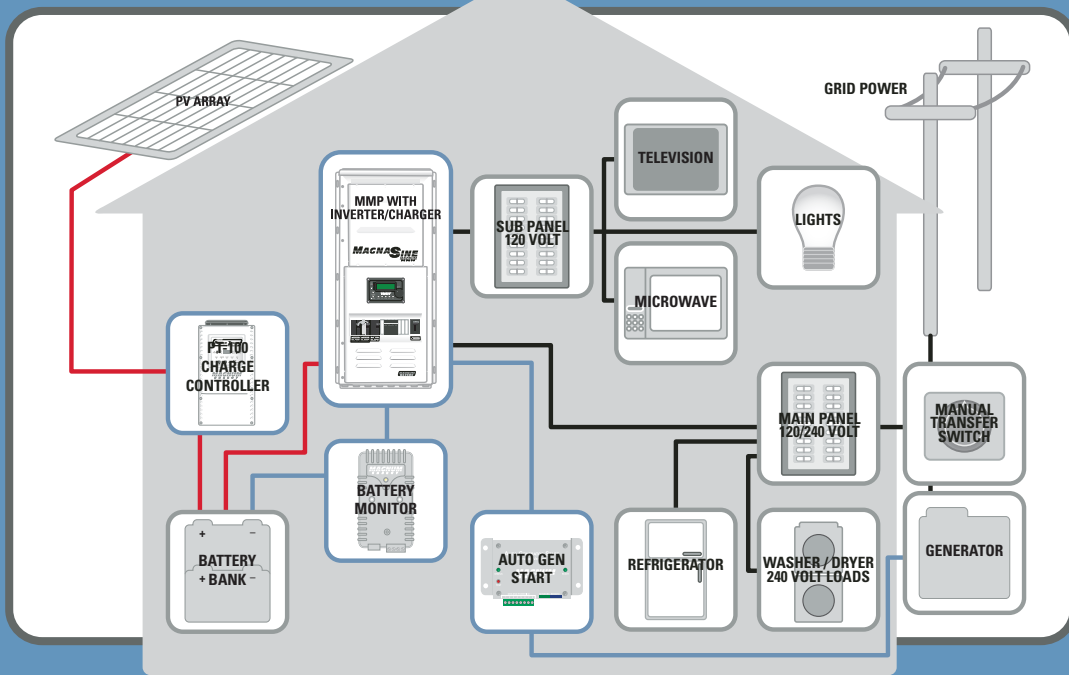
Remote Bezel

Remote Switch Adapters

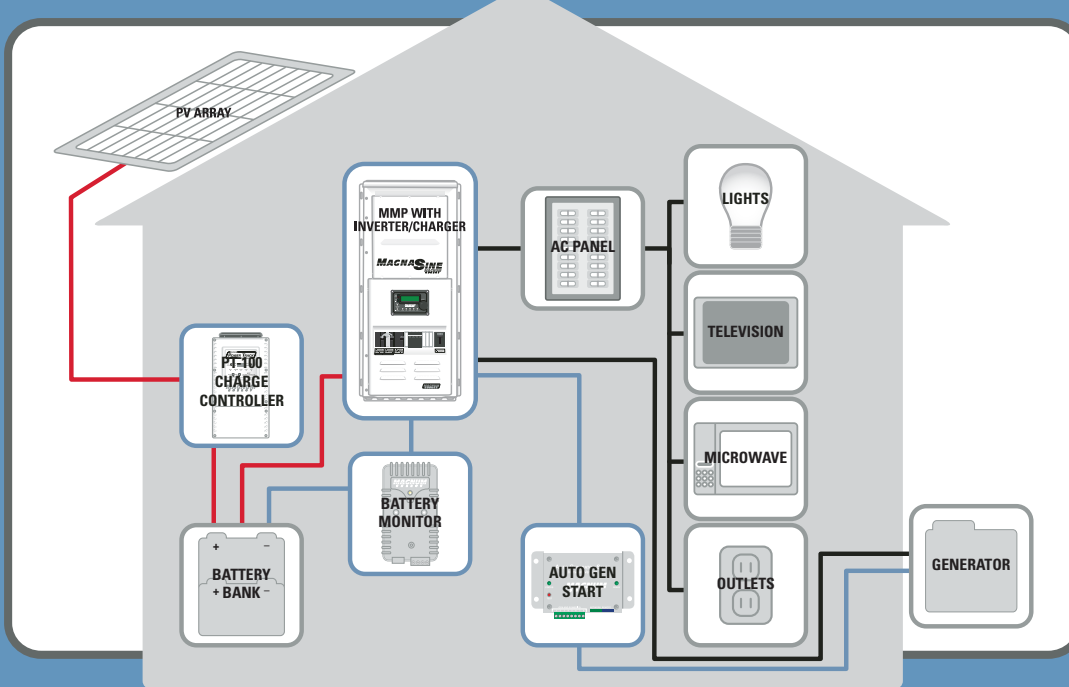
Router Front Cover (MP-RFC)

Series Stacking Cable Kit

BACKUP POWER DIAGRAM



OFF-GRID POWER DIAGRAM



MAGNUM-DIMENSIONS
2211 West Casino Road
Everett, Washington 98204 USA

425-353-8833

4467 White Bear Pkwy
St. Paul, MN 55110 USA

800-553-6418