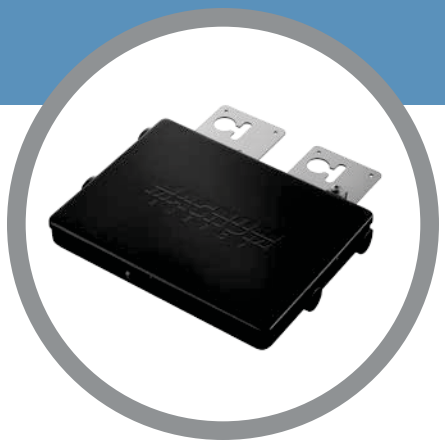


MicroGT 500 Microinverter

Storage-ready microinverter optimized to work seamlessly with Magnum battery-based inverters. Ideal for AC-coupled systems and enhancing battery life.

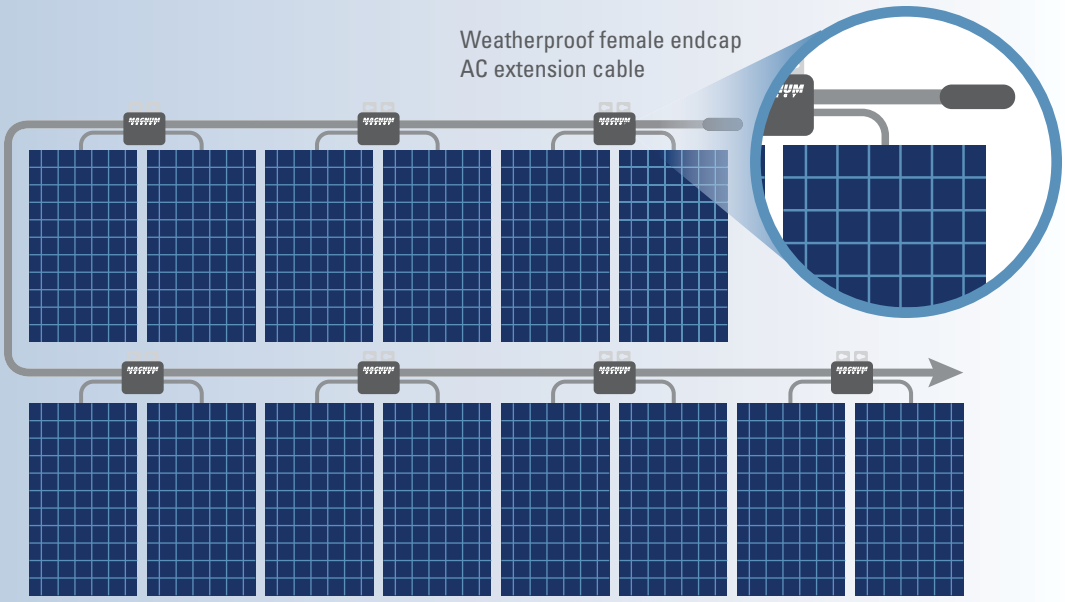
The Magnum Energy MicroGT 500 Microinverter from Sensata Technologies is optimized to communicate with a Magnum battery-based inverter, allowing the addition of battery storage at any time. The dual module, MPPT MicroGT is engineered for easy installation, with a daisy-chain design and no trunk cable required.

FEATURES

- Supports two modules per inverter, reducing installation labor time.
- Can accommodate PV modules up to 365W; ideal for modules up to 310W.
- Each microinverter has two MPPT, allowing for individual MPPT on each panel.
- Module-level electronics mitigates shading issues and increases system output and reliability.
- Connect up to 14 solar modules in a single branch (string), using just seven MicroGT 500 Microinverters with a 20A breaker, for up to 3500W of solar per branch.
- Ready for install in your area: UL1741 and NEC690.12 compliant.
- Storage-ready: Optimized to regulate AC coupled Magnum battery-based inverters, increasing battery life.

SYSTEM COMPONENTS REQUIRED FOR EACH SOLAR INSTALLATION

- MicroGT500
- Endcap and pigtail
- MagWeb GT (Optional)
- For use with PV + battery storage:
  Add a storage system with one or more Magnum MS4448PAE or MS4024PAE Inverter/Chargers, an ME-BMK, and batteries.



Connect up to 14 solar modules in a single branch (string), using just seven MicroGT 500 Microinverters with a 20A breaker, for up to 3500W of solar per branch.

AVAILABLE ACCESSORIES

- **MagWeb GT:**
  Provides an integrated dashboard of the MicroGT output and MS-PAE Inverter/Charger output, including the battery state-of-charge (SOC)
- Interconnection cable and adapter for communication between the MagWeb GT and the MS-PAE Inverter/Charger
- AC connection cable
- AC extension cable
- Weatherproof female endcap

MICROGT 500 MICROINVERTER SPECIFICATIONS

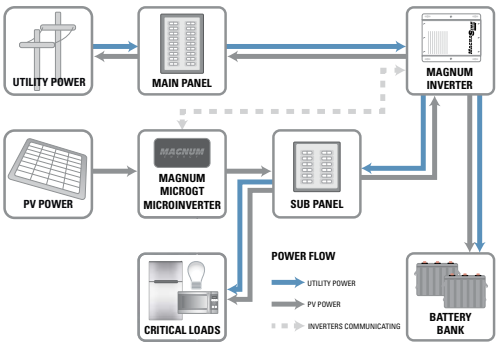
INPUT	
Recommended PV Module Power RangePower	180-310W
MPPT Voltage Range	22-45V
Maximum Input Voltage	55V
Maximum Input Current	12A X 2
OUTPUT DATA	
Rated Output Power	500W
Maximum Output Current	2.08A @ 240V
Nominal Output Voltage/Range - 240V	240V/211V-264V
Nominal Output Frequency/Range	60Hz/ 59.3-60.5Hz (Programmable per customer and utility requirements.)
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units Per Branch	7 per 20A @ 240V
GENERAL SPECIFICATIONS	
Peak Efficiency	95.5%
Listings & Compliance	Emissions & Immunity (EMC) Compliance FCC PART 15, ANSI C63.4 2003, ICES-003 Safety Class Compliance Grid Connection Compliance IEEE 1547 UL 1741 , CSA C22.2, No. 107.1-01, NEC2014 690.12
Warranty	25 years
ENVIRONMENTAL SPECIFICATIONS	
Operating temperature / Storage temperature	-40°F to +149°F (-40°C to +65°C) / -40°F to +185°F (-40°C to +85°C)
Enclosure rating	NEMA 6
PHYSICAL SPECIFICATIONS	
Unit dimensions (w x h x d)	8.75" x 6.5" x 1.1" (221mm x 167mm x 29mm)
Weight	5.5 lbs (2.5kg)

MICROGT 500 MICROINVERTER AND ACCESSORY PART NUMBERS

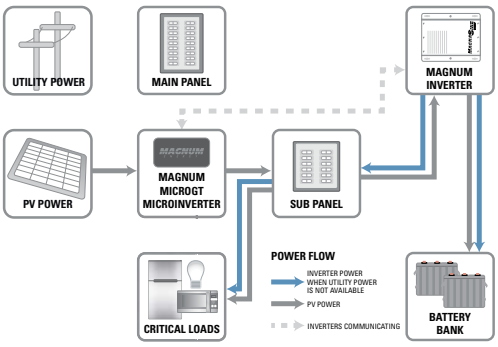
PART NUMBER	DESCRIPTION
ME-MGT500	MicroGT 500 Grid Tie Dual Output 500W Microinverter
ME-MGT-MW	MicroGT 500 MagWeb GT Communication Unit For unified display of Microinverter production, MS-PAE inverter/charger and battery status
ME-MGT-AC-F	MicroGT 500 AC Connection 2m (6ft) Cable. For connecting junction box to first inverter
ME-MGT-AC-EXT	MicroGT 500 AC Extension 2m (6ft) cable. For connecting between inverters if needed
ME-MGT-ADAPTER	MicroGT 500 RS485 to RS232 Adapter and 8m (25ft) Interconnect Cable. For connecting MS-PAE to MagWeb GT Communication Unit
ME-MGT-ENDCAP-F	MicroGT 500 AC Female Cap. For capping end of branch circuit in conjunction with MicroGT
ME-BMK	Battery Monitoring Kit

Grid-Tie with Battery Backup Using the MicroGT 500 Microinverter

WHEN GRID POWER IS PRESENT



WHEN GRID POWER IS UNAVAILABLE



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Testing for specifications at 25° C.
Specifications subject to change without notice.

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