



MicroGT 500 Inverter

Grid-Tie Microinverter Ideal for use with Battery Backup Systems

Sensata Technologies is excited to introduce the Magnum Energy **MicroGT 500 Inverter**. Optimized to communicate with a Magnum battery-based system, allowing the addition of battery storage, the MicroGT 500 offers a lot in a little box.

FEATURES

- Supports two modules per inverter, reducing installation labor time.
- Handles up to 310W modules with negligible clipping, delivering 250W AC per module.
- Individual MPPT for each module.
- Module-level electronics mitigates shading issues and increases system output and reliability.
- Using seven MicroGT 500 inverters, string up to 14 solar modules with a 20A breaker.
- 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.

AVAILABLE ACCESSORIES

- **MagWeb GT:** Integrated dash board of the MicroGT output and MS-PAE Inverter/Charger output, ME-BMK, and Magnum remote output of the battery state-of-charge
- AC termination cable
- AC extension connection cable
- Interconnection cable between inverter and MagWeb GT

MICROGT 500 INVERTER SPECIFICATIONS

INPUT	
Recommended PV Module Power Range	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	10 years standard, extendable to 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)

GRID-TIE
WITH BATTERY
BACKUP USING
THE MICROGT
500 INVERTER

