MICROGT 500 INVERTER

Grid-Tie Microinverter Ideal for use with Battery Backup Systems AVAILABLE SOON



Sensata Technologies is excited to introduce the Magnum Energy brand **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 shows real-time output 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

Recommended PV Module Power Range Power MPPT Voltage Range 22-45V Maximum Input Voltage Maximum Input Current 12A X 2 OUTPUT DATA Rated Output Power Maximum Output Current 2.08A @ 240V Maximum Output Voltage/Range - 240V Maximum Output Voltage/Range - 240V Nominal Output Voltage/Range - 240V Nominal Output Frequency/Range 60Hz/ 59.3-60.5Hz (Programmable per customer and utility requirements.) Power Factor >0.99 Total Harmonic Distortion 43% Maximum Units Per Branch 7 per 20A @ 240V GENERAL SPECIFICATIONS Peak Efficiency Listings & Compliance Grid Connection Compliance IEEE 1547 UL 1741 , CSA C22.2, No. 107.1-01 , NEC2014 690.12 Warranty ENVIRONMENTAL SPECIFICATIONS Operating temperature / Storage temperature Enclosure rating NEMA 6 PHYSICAL SPECIFICATIONS Unit dimensions (w x h x d) Weight 8.55 lbs (2.5kg)	INPUT	
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 EEE 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 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)	Recommended PV Module Power RangePower	180-310W
Maximum Input Current Bated Output Power Maximum Output Current SooW Maximum Output Current SooW Maximum Output Current SooW Maximum Output Voltage/Range - 240V Nominal Output Voltage/Range - 240V Nominal Output Frequency/Range 60Hz/ 59.3-60.5Hz (Programmable per customer and utility requirements.) Power Factor Sooy9 Total Harmonic Distortion Asimum Units Per Branch Feak Efficiency 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 Dyears standard, extendable to 25 years ENVIRONMENTAL SPECIFICATIONS Operating temperature / Storage temperature PHYSICAL SPECIFICATIONS Unit dimensions (w x h x d) 8.75" x 6.5" x 1.1" (221mm x 167mm x 29mm)	MPPT Voltage Range	22-45V
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Rated Output Power500WMaximum Output Current2.08A @ 240VNominal Output Voltage/Range - 240V240V/211V-264VNominal Output Frequency/Range60Hz/ 59.3-60.5Hz (Programmable per customer and utility requirements.)Power Factor>0.99Total Harmonic Distortion<3%	Maximum Input Current	12A X 2
Maximum Output Current 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 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)	OUTPUT DATA	
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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)	Nominal Output Voltage/Range - 240V	240V/211V-264V
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)	Nominal Output Frequency/Range	60Hz/ 59.3-60.5Hz (Programmable per customer and utility requirements.)
Maximum Units Per Branch GENERAL SPECIFICATIONS Peak Efficiency 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 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)	Power Factor	>0.99
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)	Total Harmonic Distortion	<3%
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)	Maximum Units Per Branch	7 per 20A @ 240V
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 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)	GENERAL SPECIFICATIONS	
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)	Peak Efficiency	95.5%
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)	Listings & Compliance	Grid Connection Compliance IEEE 1547
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)	Warranty	10 years standard, extendable to 25 years
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)	ENVIRONMENTAL SPECIFICATIONS	
PHYSICAL SPECIFICATIONS Unit dimensions (w x h x d) 8.75" x 6.5" x 1.1" (221mm x 167mm x 29mm)	Operating temperature / Storage temperature	-40°F to +149°F (-40°C to +65°C) / -40°F to +185°F (-40°C to +85°C)
Unit dimensions (w x h x d) 8.75" x 6.5" x 1.1" (221mm x 167mm x 29mm)	Enclosure rating	NEMA 6
· · · · · · · · · · · · · · · · · · ·	PHYSICAL SPECIFICATIONS	
Weight 5.5 lbs (2.5kg)	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)

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