



APS M1P-SAA

Grid-connected Microinverter

Version: 2.4
(For Australia/New Zealand)

ALTENERGY POWER SYSTEM, INC.

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YC250-SAA Technical Specifications

Type	YC250-SAA
Input Data (DC)	
Recommended PV Module Power (STC)Range	180-310W
MPPT Voltage Range	22-45VDC
MPPT Voltage Range @ Full Power	26-45VDC
Operation Voltage Range	16-52VDC
Maximum Input Voltage	55VDC
Startup Voltage	22V
Maximum Input Current	10.5A
Output Data (AC)	
Maximum Continuous Power	250W
Maximum Continuous Current	1.08A
Rated Grid Voltage	230VAC
Default Output Voltage Range	200V-270V ¹
Extended Output Voltage Range	149V-278V
Rated Grid Frequency	50Hz
Default Output Frequency Range	47.5Hz-50.5Hz ¹
Extended Output Frequency Range	45.1Hz -54.9Hz
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units per Branch	14 for 20A Breaker/18 for 25A Breaker
Efficiency	
Max. Inverter Efficiency	95.5% (With HF Transformer)
Mechanical Data	
Operating Ambient Temperature	-40 °C to +65°C
Operating Internal Temperature	-40 °C to +85°C
Storage Temperature Range	-40 °C to +85°C
Dimensions (W x H x D)	160mmX 150mmX 29mm
Weight	1.5kg
AC BUS	12AWG
Waterproof Level	IP65
Cooling	Natural Convection
Wet Locations Classification	For Wet Locations
Pollution Degree Classification	PD3
Relative Humidity Ratings	0-95%
Maximum Altitude Rating	All data at this technical Specifications has been tested under <2000m
Overvoltage Category	OVC II for PV input circuit, OVC III for mains circuit
Features & Compliance	
Communication	Power Line
Design Lifetime	25yrs
Monitoring	Life monitoring via EMA software
Grid Connection Compliance	AS 4777.2/AS 4777.3

Safety Class Compliance	EN 62109-1; EN 62109-2;AS3100
¹ Programmable through ECU to meet customer need.	

The specifications are subject to change without notice.

YC500-SAA Technical Specifications

Type	YC500-SAA(2 independent MPPT)
Input Data (DC)	
Recommended PV module power (STC) range	180-310W
MPPT voltage range	22-45VDC
MPPT Voltage Range @ Full Power	26-45VDC
Operation Voltage Range	16-52VDC
Maximum Input Voltage	55VDC
Startup Voltage	22V
Maximum Input Current	10.5AX2
Output Data (AC)	
Maximum Continuous Power	500W
Maximum Continuous Current	2.17A
Rated Grid Voltage	230VAC
Default Output Voltage Range	200V-270V ¹
Extended Output Voltage Range	149V-278V
Rated Grid Frequency	50Hz
Default Output Frequency Range	47.5Hz-50.5Hz ¹
Extended Output Frequency Range	45.1Hz -54.9Hz
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units per Branch	7 for 20A Breaker/9 for 25A Breaker
Efficiency	
Max. Inverter Efficiency	95.5% (with HF Transformer)
Mechanical Data	
Operating Ambient Temperature	-40°C to +65°C
Operating Internal Temperature	-40°C to +85°C
Storage Temperature Range	-40°C to +85°C
Dimensions (W x H x D)	221mm X 167mm X 29mm
Weight	2.5kg
AC BUS	12AWG
Waterproof Level	IP65
Cooling	Natural Convection
Wet Locations Classification	For Wet Locations
Pollution Degree Classification	PD3
Relative Humidity Ratings	0-95%
Maximum Altitude Rating	All data at this technical Specifications has been tested under <2000m
Overvoltage Category	OVC II for PV input circuit, OVC III for mains circuit

Features & Compliance	
Communication	Power Line
Design Lifetime	25yrs
Monitoring	Life monitoring via EMA software
Grid Connection Compliance	AS 4777.2/AS 4777.3
Safety Class Compliance	EN 62109-1; EN 62109-2;AS3100
¹ Programmable through ECU to meet customer need.	

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Contact Information

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Statement: All products are subject to technical improvements without notice.

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