



Maximize AC Power Output

The high-performance MAC-400R single unit microinverter is engineered for maximum AC power output when paired with Aptos Solar Technology's high-power solar panels. The MAC-400R is built for simple system integration and is compatible with third-party devices.

The MAC-400R is equipped and ready for system monitoring and trend tracking through Aptos Solar Technology's cloud based software.



High-performance 1:1 Microinverter

Up to 400W



Maximum AC Power Output

- Up to 400W
- 10% more AC power output than competing products



Superior Long-term Reliability

- Industry leading 25-year warranty
- Over 7MW of long-term reliability testing hours spread across 28 countries
- NEMA6 (IP67) enclosure rated for protection in harsh outdoor conditions



Streamlined Installation

- Fully integrated trunk cables
- Compatible with 120 & 144 cell PV panels with daisy-chain interconnection
- Battery integration ready

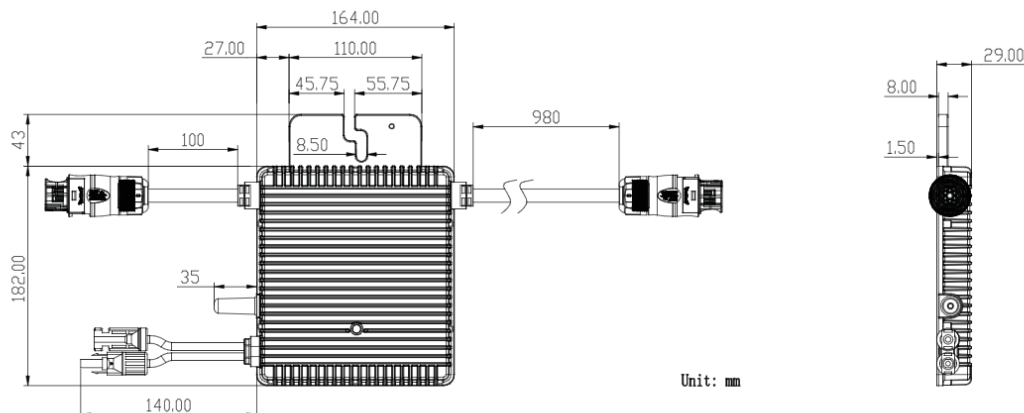


Built for Safety

- Built-in rapid shutdown feature in compliance with National Electrical Code (NEC)
- 6,000V surge protection feature

MACTM 400 R

Solar for Innovators



Input Data (DC)

Commonly used module power (W)	320W-540W+
Maximum input voltage(V)	60
MPPT voltage range(V)	16-60
Start-up voltage(V)	22
Maximum input current(A)	12.5

Mechanical Data

Ambient temperature range (°C)	-40 to +65
Dimensions (W X H X D mm)	182 X 164 X 29.5
Weight (kG)	1.98
Enclosure rating	Outdoor-NEMA (IP67)
Cooling	Natural convection - No fans

Output Data (AC)

Peak output power(VA)	400	
Maximum continuous output power(VA)	382	
Maximum continuous output current (A)	1.59	1.84
Nominal output voltage/range(V) ¹	240/211-264	208/183-228
Nominal frequency/range (Hz) ¹	60/55-65	
Power factor (adjustable)	>0.99 default 0.8 leading...0.8 lagging	
Total harmonic distortion	<3%	
Maximum units per branch ²	10/8	

Efficiency

CEC peak efficiency	96.7%
CEC weighted efficiency	96.5%
Nominal MPPT efficiency	99.8%
Nighttime power consumption (mW)	<50

Loading Quantity

Container	1 X 20'GP	1 X 40'GP/1 X 40'HQ
Pallet No.	10	22
Carton No.	600	1260
Total quantity	3000	6300

Features

Communication	2.4GHz Proprietary RF(Nordic)
Monitoring	AST Cloud ³
Warranty	25 years
Compliance	UL 1741, IEEE 1547, UL 1741 SA (240Vac), CA Rule 21 (240Vac), CSA C22.2 No. 107.1-16, FCC Part 15B, FCC Part 15C
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems

*1 Nominal voltage/frequency range can be changed due to the requirements of local power department.

*2 Refer to local requirements for exact number of microinverters per branch.

*3 Aptos Monitoring System.