



renvu AURORA

MICRO-0.25-I MICRO-0.3-I

GENERAL SPECIFICATIONS OUTDOOR MODELS

The new Aurora 250 & 300-watt micro-inverter product offers something new to Power-One customers. The ability to individually link all modules within a specific installation is an alternative to the traditional Aurora string inverters Power-One is famous for.

Micro-inverters have some advantages over string inverters. They allow you to control the panels output individually and offer Maximum Power Point Tracking (MPPT) for each single module.

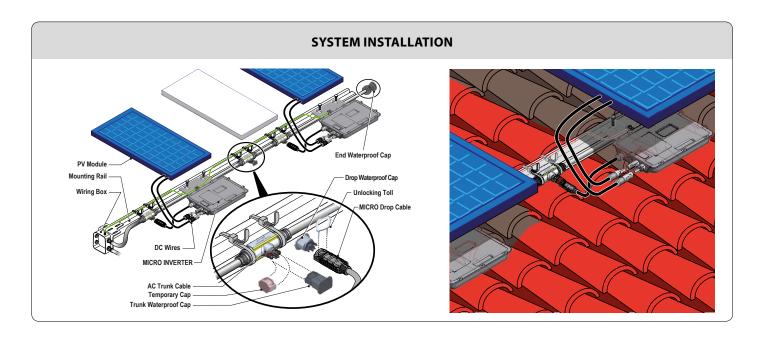
They also allow you to control individual panels in different ways and reduce the losses in efficiency in a variety of challenging conditions.



Features

- 'Electrolyte-free' power converter to further increase the life expectancy and long term reliability
- Outdoor enclosure for unrestricted use under any environmental conditions
- Increased energy harvesting thanks to the MPPT algorithm which works at the level of each solar panel in any light condition
- Enhanced MPPT control with reduced DC input current ripple
- HF isolation to fits any application that requires the positive grounding of DC input terminals
- 96.5% maximum efficiency
- Ease of installation by the implementation of a package inclusive of proprietary wireless communication hub
- Reduced susceptibility to fault. In case of a component failure only the energy produced from one PV module will be lost

AURORA PANEL PRODU



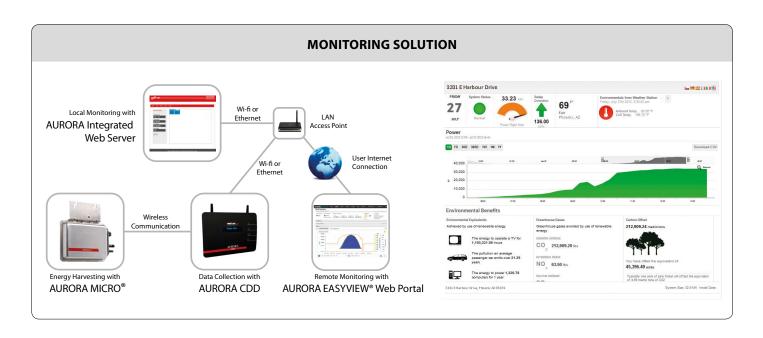
AURORA MICRO® INVERTER SYSTEM INSTALLATION

- The AURORA MICRO® Inverter offers ease of to installation with an AC trunk and drop cable configuration
- The mounting bracket on the AURORA MICRO® inverter ensures simple and durable mounting on commercially available racking solutions
- AC Cabling compatible with 60, 72 and 96 cell modules in both portrait and landscape orientation
- Locking connectors and weatherproof accessories ensure long term reliable operation of the plant

AURORA VISION MONITORING

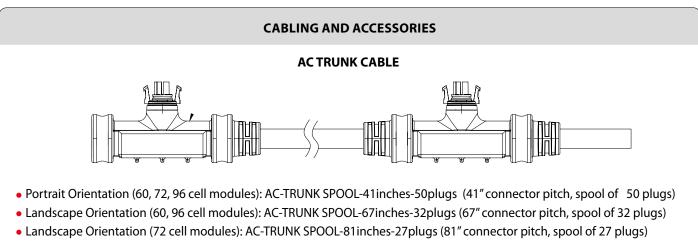
- Easy monitoring solution for homeowners with AURORA EASYVIEW®
- Complete reporting, analytics and diagnostic view for installers with complete control of installation process and access security
- Tightly integrated micro-inverter and monitoring solution

System Overview

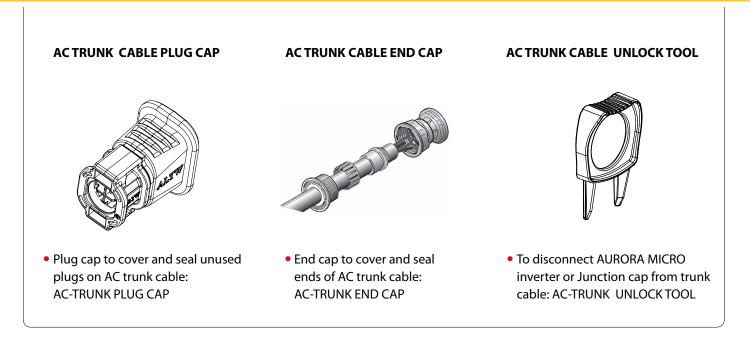


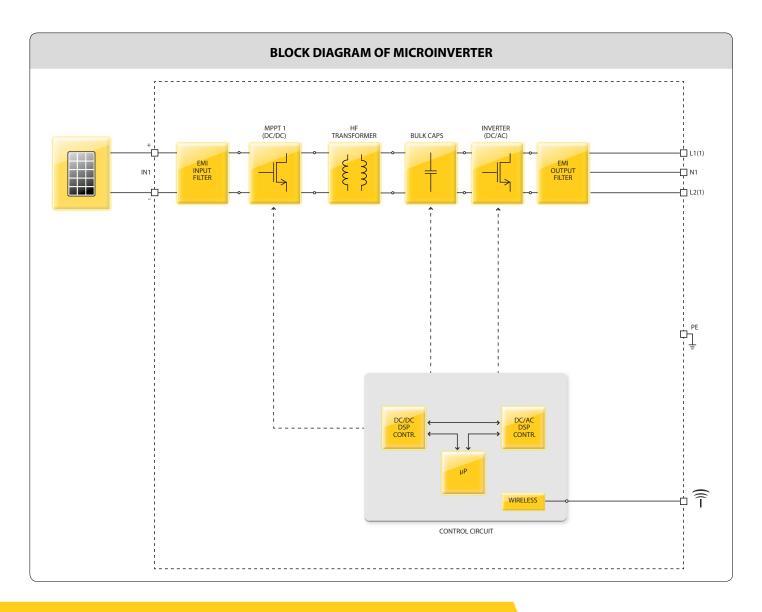




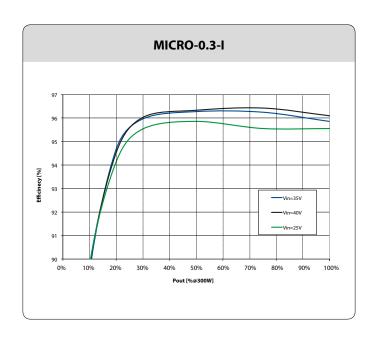


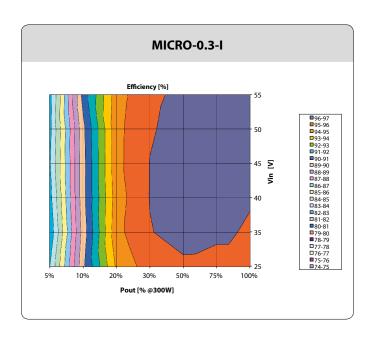
System Components





Block Diagram and Efficiency Curves





Adjustable Voltage Range (Vmin-Vmax) V 183-228 211-264 183-228 Grid Frequency Hz 60 60 60 Adjustable Grid Frequency Range Hz 57-60.5 57-60.5 57-60.5 Maximum Output Current A 1.20 1.04 1.44 Power Factor > 0.95 > 0.95 > 0.95 Maximum Number of Inverters per String 13 15 11 Grid Wiring Termination Type 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices Input Yes Reverse Polarity Protection Polarized PV Connectors (Amphenol H4) Output Amti-Islanding Protection Meets UL 1741/IEEE1547 requirements	HNICAL DATA	VALUES	MICRO-0.25-I-OUTD- US-208/240		MICRO-0.3-I-OUTD- US-208/240		
Maximum Output Power W 250 240 208 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300	inal Output Power	W	2	50	300 ¹		
Imput Side (DC)		V	208	240	208	240	
Abacimum Usable DC Input Power Wp	mum Output Power	W	2	50	300		
Maximum Usable DC Input Power Wp 265 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320 320	t Side (DC)						
V 25 25 25 25 25 25 25		Wp	20	65 ²	3202		
Full Power MPPT Voltage Range	lute Maximum Voltage (Vmax)	V	6				
Departing Voltage Range	- Up Voltage (Vstart)	V	2	25			
Maximum Usable Current (Idcmax) A 10.5 10.5 10.5 Maximum Mort Circuit Current Limit A 12.5	Power MPPT Voltage Range	V	25	j-60	30-60		
Maximum Short Circuit Current Limit		V			12-60³		
Amphenol H4 (MC4 compatible) PV connector	mum Usable Current (Idcmax)	Α			10.5		
Dutput Side (AC)	mum Short Circuit Current Limit	Α					
10/2W Split-0/3W Split-0/3W 10/2W Split-0/3W Split-0/3W 10/2W Split-0/3W Spl	onnection Type		A	mphenol H4 (MC4 co	mpatible) PV connector		
Marginatable Voltage Range (Vmin-Vmax) V 183-228 211-264 183-228 260 60 60 60 60 60 60 6	out Side (AC)						
Hz GO	Connection Type		1Ø/2W	Split-Ø/3W	1Ø/2W	Split-Ø/3W	
First Frequency Hz 60 60 60 Hz 557-60.5 57-60.5 57-60.5 Hz 557-60.5 57-60.5 Hz 57-60.5 57-6	**	V	183-228		183-228	211-264	
Maximum Output Current	-	Hz	6	50	60		
Askinium Output Current	•	Hz	57-	-60.5	57-60	.5	
Source S		Α	1.20	1.04	1.44	1.25	
Take the protection Devices in put the protection Devices in put the polarized PV Connectors (Amphenol H4) and the	•						
Taries Wiring Termination Type 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices Input 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices 12AWG Drop Cable from Inverter to 10AWG AC Trunk Cab Protection Devices Input Cab Protection Input Cab Protection Devices Input Cab Protection Input	mum Number of Inverters per String		13	15	11	12	
Protection Devices Input Reverse Polarity Protection Polarized PV Connectors (Amphenol H4) Dutput Inti-Islanding Protection Polarized PV Connectors (Amphenol H4) Diver-Voltage Protection Type Asximum AC OCPD Rating A 20 20 Asximum Efficiency Maximum Operating Altitude without Derating Maximum Operating Emperature Range Maximum Operating Altitude without Derating Maximum Operating Altitude withou					rter to 10AWG AC Trunk	Cable	
New Polarized PV Connectors (Amphenol H4)	7.						
Vesteverse Polarity Protection							
Meets UL 1741/IEEE1547 requirements				Y	es		
Meets UL 1741/IEEE1547 requirements Neets UL 1741/IEEE1547 requirements Neets UL 1741/IEEE1547 varistor Varistor Varistor Varistor Varistor Varistor Varistor Varistor Varistor Azximum AC OCPD Rating A	•		Polarized PV Connectors (Amphenol H4)				
Available Protection Type Maximum AC OCPD Rating A 20 20 20 20 20 20 20 20 20 20 20 20 20							
A					Meets UL 1741/IEEE1547 requirement		
### Sefficiency ### Maximum Efficiency ### Maximum Efficiency ### Maximum Efficiency ### Maximum Efficiency ### Maximum M					1 111		
Maximum Efficiency % 96.5 96.5 96.5	mum AC OCPD Rating	A	20		20		
Departing Performance Stand-by Consumption Communication Monitoring System Converting Performance Converting Performance Converting Performance Converting Performance Converting System Converting System Converting Temperature Range Converting Tempe	•						
Operating Performance Stand-by Consumption Communication Monitoring System Monitoring System Monitoring System Monitoring System Monitoring System Monitoring System Monitoring System Monitoring System Proc	•						
Ambient Air Operating Temperature Range Relative Humidity % RH 0-100 condensing 0-100 condensing Ft(m) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000) 6560 (2000)	•	%	96		96		
Monitoring System Monitoring Horosophic System Monitoring System Monitoring System Monitoring System Monitoring Horosophic System Monitoring System Monitoring System Monitoring System Monitoring Horosophic System Monitoring System Monitoring System Monitoring Horosophic System Monitoring Horosophic System Monitoring System Monitoring Horosophic System Monitoring Horosophic System Monitoring Horosophic System Monitoring Horosophic System Monitorion System Monitorio	rating Performance						
Monitoring System Monitoring Sy	d-by Consumption	mW	<	50	< 50		
Ambient Air Operating Temperature Range Ambient Air Storage Temperature Range Pr (°C) And to 167 (-40 to 75) with derating above 149 (65)	munication						
Ambient Air Operating Temperature Range "F (°C) Ambient Air Storage Temperature Range "F (°C) Ambient Air Storage Temperature Range "F (°C) Ado to 167 (-40 to 75) with derating above 149 (65) Ambient Air Storage Temperature Range "F (°C) Ado to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 75) with derating above 149 (65) Ado to 167 (-40 to 75) with derating above 149 (65) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40 to 167 (-40 to +75) Ado to 167 (-40			Wireless and Web-Based Monitoring through AURORA CDD				
Ambient Air Operating Temperature Range Ambient Air Storage Temperature Range F (°C) Above 149 (65) Above 149 (color)	ronmental						
Ambient Air Storage Temperature Range "F (°C) -40 to 167 (-40 to +75) -40 to 167 (-40 to 68 to +75) -40 to 167 (-40 to 167 (-40 to 167 (-40 to 68 to 167	ient Air Operating Temperature Range	°F (°C)			-40 to 167 (-40 to 75) with derating above 149 (65)		
Relative Humidity Relative Humi	ient Air Storage Temperature Range	°F (°C)	` '		-40 to 167 (-40 to +75)		
Acoustic Noise Emission Level db (A) @1m < 30 < 30 Maximum Operating Altitude without Derating ft(m) 6560 (2000) 6560 (2000) Mechanical Specifications Enclosure rating NEMA 4X NEMA 4X Cooling Natural Convection Natural Convection Dimensions (H x W x D) in (mm) 10.5 x 9.7 x 1.37 (266 x 246 x 35) Meight Ib/(kg) < 3.5 (1.65) < 3.5 (1.65) Mounting System Rack mounting with 5/16" bolt Safety Solation Level HF Transformer Gafety and EMC Standard Gafety Approval Marranty Warranty	J .				0-100 condensing		
Maximum Operating Altitude without Derating ft(m) 6560 (2000) 6560 (2000) Mechanical Specifications Enclosure rating NEMA 4X NEMA 4X Cooling Natural Convection Na	•					< 30	
Mechanical Specifications Enclosure rating NEMA 4X NEMA 4X NEMA 4X Nema 4X Natural Convection Natural Conve					6560 (2000)		
NEMA 4X Nema 4		-, ,	2200		3333(2		
Natural Convection Natural Conve	•		NEM	1A 4X	NEMA	4X	
Dimensions (H x W x D) in (mm) 10.5 x 9.7 x 1.37 (266 x 246 x 35) Weight	-				Natural Convection		
Neight Safety Solation Level Safety and EMC Standard Safety Approval Safety Approval Safety Solation Level Safety Solation Level Safety Solation Level Safety	-	in (mm)	. racardi C				
Rack mounting with 5/16" bolt Safety solation Level Safety and EMC Standard Safety Approval Narranty Rack mounting with 5/16" bolt HF Transformer UL1741, EN61000-6-3, FCC Part 15 CSA		. ,	< 3.5			.65)	
Safety Solation Level HF Transformer UL1741, EN61000-6-2, EN61000-6-3, FCC Part 15 Safety Approval Varranty HF Transformer CSA CSA CSA CSA CSA CSA CSA CS		·~, (Ng)					
HF Transformer HF Transformer UL1741, EN61000-6-2, EN61000-6-3, FCC Part 15 Safety Approval CSA _{us} CSA _{us} Warranty				ack mounting	,		
Gafety and EMC Standard UL1741, EN61000-6-2, EN61000-6-3, FCC Part 15 CCSA Safety Approval Warranty UL1741, EN61000-6-2, EN61000-6-3, FCC Part 15 CCSA SCSA SCSA SCSA SCSA SCSA SCSA SCS	•		HF Tran	nsformer	HF Transfe	ormer	
Part 15 Part 15 Safety Approval Narranty Part 15 CSA CSA CSA CSA CSA CSA CSA CS							
Narranty	ty and EMC Standard		Pai	rt 15			
	y Approval		_c C:	SA _{us}	_c CSA	IS	
Standard Warranty years 10 10	anty						
·	dard Warranty	years	1	10	10		
Available Models	able Models						
Standard MICRO-0.25-I-OUTD-US-208/240 MICRO-0.3-I-OUTD-US-008/240 MICRO-0.3-I-OUTD-US-			MICRO-0.25-I-O	UTD-US-208/240	MICRO-0.3-I-OUTI	D-US-208/240	

¹ With derating below 200V for 208VAC operation
2 This is the maximum power that the inverter will utilize. It does not define the maximum power rating for the PV module.
3 Only use PV modules that satisfy these parameters under all operating conditions.





www.power-one.com

Power-One Renewable Energy Worldwide Sales Offices

Country	Name/Region	<u>Telephone</u>	<u>Email</u>
Australia	Asia Pacific	+61 2 9735 3111	sales.australia@power-one.com
China (Shenzhen)	Asia Pacific	+86 755 2988 5888	sales.china@power-one.com
China (Shanghai)	Asia Pacific	+86 21 5505 6907	sales.china@power-one.com
India	Asia Pacific	+65 6896 3363	sales.india@power-one.com
Singapore	Asia Pacific	+65 6896 3363	sales.singapore@power-one.com
Belgium / The Netherlands / Luxembourg	Europe	+32 2 206 0338	sales.belgium@power-one.com
France	Europe	+33 (0) 141 796 140	sales.france@power-one.com
Germany	Europe	+49 7641 955 2020	sales.germany@power-one.com
Italy	Europe	00 800 00287672 Opt. n°5	sales.italy@power-one.com
Spain	Europe	+34 91 879 88 54	sales.spain@power-one.com
United Kingdom	Europe	+44 1903 823 323	sales.UK@power-one.com
Dubai	Middle East	+971 50 100 4142	sales.dubai@power-one.com
Canada	North America	+1 877 261-1374	sales.canada@power-one.com
USA East	North America	+1 877 261-1374	sales.usaeast@power-one.com
USA Central	North America	+1 877 261-1374	sales.usacentral@power-one.com
USA West	North America	+1 877 261-1374	sales.usawest@power-one.com