



250W Inverter for Solar Panel

>> **Introduction:**

UNIV-M248 250w micro inverter continues our tradition of power, efficiency, and reliability advancements, it offers unique technology that enables much improved solar energy harvest, increased reliability, simplified installation and efficiency management of solar power system.

Each UNIVPO microinverter is individually connected to one PV module in the solar panel array. This unique configuration actives max. power tracking(MPPT) at the PV module level, thus eliminating single point failure, minimizing the effect of shading, soiling, orientations or PV module ageing, and improving the system's energy harvest by up to 25%.

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>> **Features:**

High efficiency(Max.95.2%)

Reduce the shadow influence, improve the generating capacity of the whole plant

AC/DC high frequency isolation technology

Maximum connect 15 sets Micro-inverters

Adopt electric power carrier communication

Easy design,Plug-and-play chain installation

Remote monitor to each module

The second generation product

>> Certificates :

< VDE, SAA, EN50438, IEC, G83, CE, ISO9001:2008 >

>> Specifications :

Model	UNIV-M248	UNIV-M500
Input Data (DC)		
Recommended maximum input power	160-300W	300W/ route, 2 routes
Maximum input DC voltage	50V	54V
Start voltage	24V	24V
Peak power tracking range	24V~40V	24V~42V
Operating range	22V~50V	18V~54V
Maximum DC short circuit current	15A	15A
Maximum input current	10A	9.5A
Output Data (AC)		
Maximum output power	248W	490W
Nominal output current	1.08A	2.13A
Maximum output current	1.11A	2.27A
Nominal voltage range	184V~265V (Adjustable with Country Deviation)	184V~264.5V (Adjustable with Country Deviation)
Nominal frequency range	46Hz~61.2Hz (Adjustable with Country Deviation)	49.2Hz~60.2Hz (Adjustable with Country Deviation)
Power factor	>0.99	
Total Harmonic Distortion	<2.4%	
Maximum units per branch	15	7
Efficiency		
Peak inverter efficiency	95.20%	95.50%
CEC weighted efficiency	94.80%	94.5
Nighttime power consumption	100mW	120mW
Mechanical Data		
Enclosure environmental rating	IP65	
Operating temperature range	-40°C~+85 °C	-40°C~+65 °C
Dimensions (WxHxD)	230mm*165mm*25mm	240mm*200mm*25mm
Weight	1.4kgs	2.5kgs
Features		
Communication	PLCC (Power Line Carrier Communication)	
Warranty	15 Years	15 Years