

440-450-455-460W



Outstanding Product Performance

- Better performance under shading effect.
- Excellent cell color control by dedicated cell blackening treatment.
- Thinner wires that appear all black at a distance



Not only in big size, But with high power

- Small form factor. Generate a huge amount of energy even in limited space.
- Up to 460W, 21.5% module efficiency with high density interconnect technology.
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection.
- Reduce installation cost with higher power bin and efficiency.
- Boost performance in warm weather lower temperature coefficient (-0.34%) and operating temperature.



Perfect fitting for commercial projects

- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems.
- Perfect size and low weight. Easy for handling. Economy for transporting.
- Diverse installation solutions. Flexible for system deployment.



High Reliability

- 20 year product warranty.
- 25 year performance warranty with lowest degradation.
- Minimized micro-cracks with innovative non-destructive cutting technology.
- Ensured PID resistance through cell process and module material control.
- Mechanical performance up to 5400pa.

Quality P

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716

ISO9001:Quality Management System

ISO14001:Environmental Management System

ISO14064: Greenhouse Grases Emissions Verification

ISO45001:Occupational Health and Safety Management System





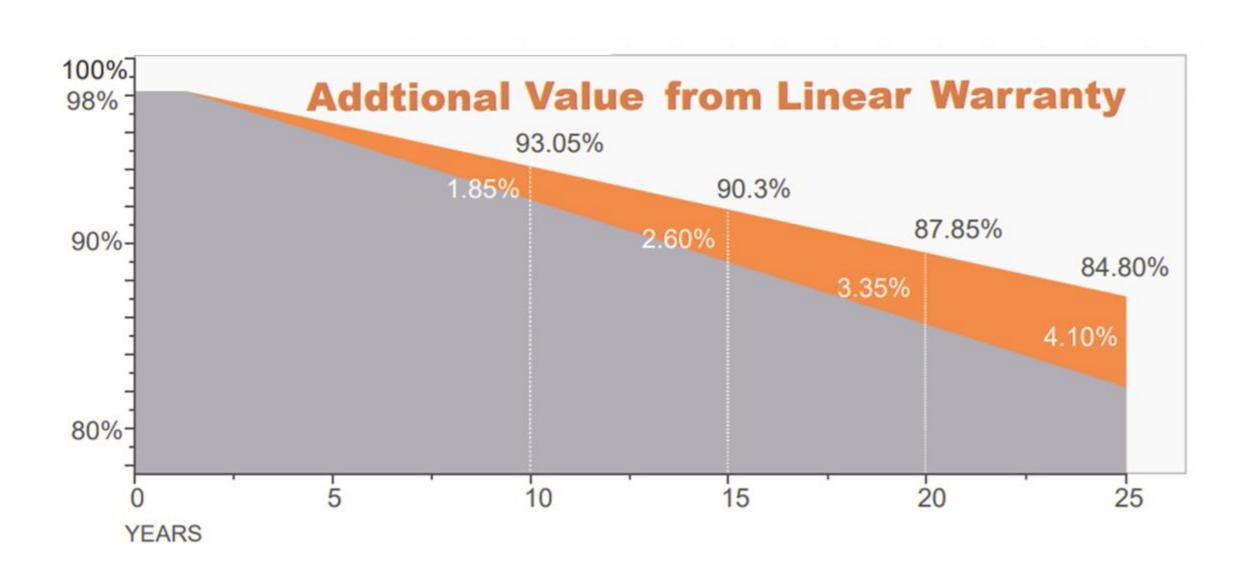


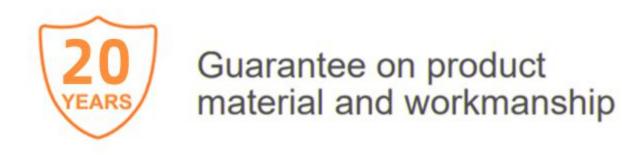






Warranty







linear power output warranty



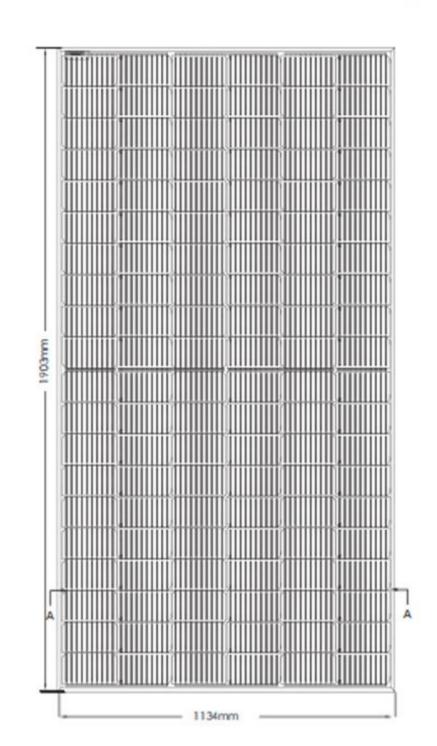
Omnis Power USA Inc

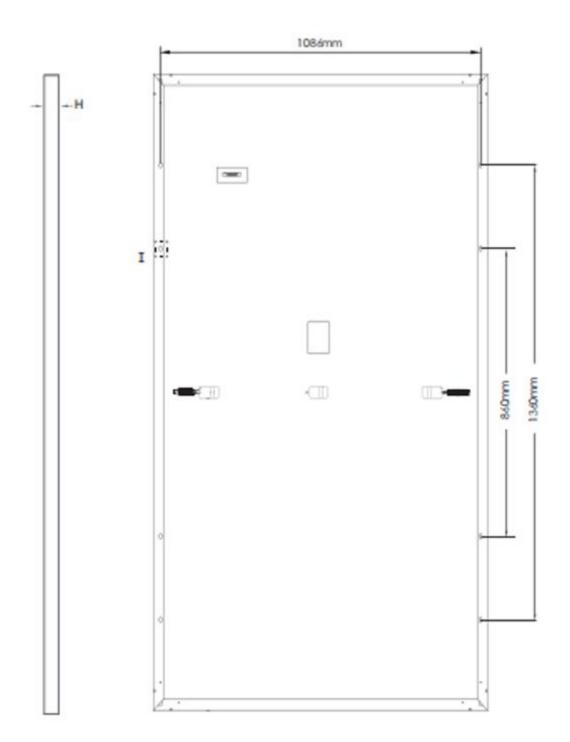
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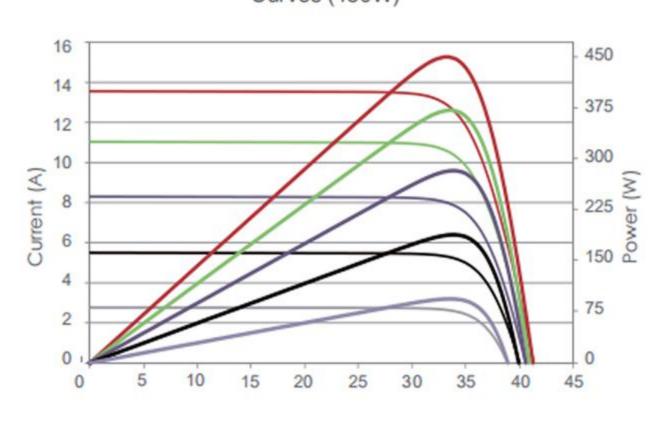


DIMENSIONS OF PV MODULE(mm)

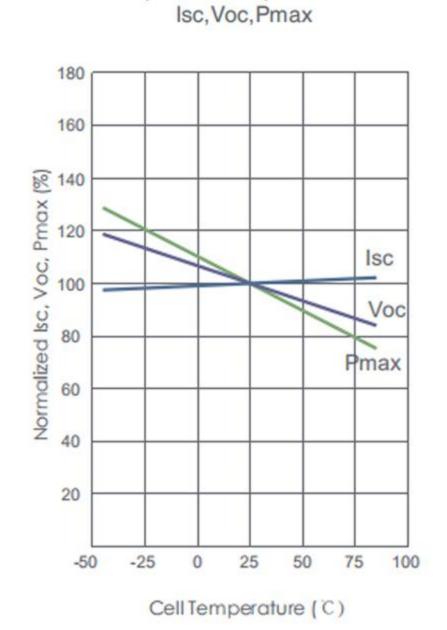




Current-Voltage & Power-Voltage Curves (450W)



Temperature Dependence of



ELECTRICAL DATA(STC)

Part Number	OP440M60-P3	OP450M60-P3	OP455M60-P3	OP460M60-P3
Peak Power Watts-PMAX(Wp)*	440	450	455	460
Power Output Tolerance	0~+5			
Maximum Power Voltage- VMPP(V)	34.2	34.6	34.8	35
Maximum Power Curret-Impp(A)	12.84	12.96	13.02	13.08
Open Circuit Voltage-Voc(V)	41	41.4	41.6	41.8
Short Circuit Current-Isc(A)	13.58	13.68	13.73	13.78
Panel Efficiency (%)	20.5	21	21.2	21.5

STC:Irradiance 1000w/m², Cell Temperature 25℃, Air Mass AM1.5

ELECTRICAL DATA(NOCT)

MaximunPower-P _{MAX} (Wp)	324	331	335	339
Maximun Power Voltage-V _{MPP} (V)	31.94	32.34	32.54	32.74
Maximum Power Current-Impp(A)	10.14	10.24	10.3	10.35
Open Circuit Voltage-Voc(V)	38.28	38.68	38.88	39.08
Short Circuit Current-Isc(A)	10.68	10.78	10.83	10.88
Temperature	41±3℃			

NMOT:Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Panel Dimension(H/W/D)	1903 x 1134 x 35 mm	
Weight	25.0kg	
Cell Type	Monocrystalline	
Cell Size	182 x 182 mm	
Cell Number	120	
Glass Type	2.0mm+2.0mm Glass	
Encapsulant Type	POE/EVA	
Frame Type	Anodized Aluminium Alloy	
Junction Box Diodes	3	
Junction Box Protection Class	IP 68	
Connector Type	MC4	
Cable Crossection	4 mm²	

^{*}Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	43°C(±2°C)
Temperature Coefficient of PMAX	-0.36%/℃
Temperature Coefficient of Voc	-0.28%/℃
Temperature Coefficient of Isc	-0.05%/℃

MAXIMUM RATINGS

Operational Temperature	-40~±85°C)
Maximum System Volfage	1000V DC(IEC)
	1000V DC(UL)
Max Series Fuse Rating	15A

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

20 year Product Workmanship Warranty

25 year Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box:30 pieces

Modules per 40'container:936 pieces



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. @2020 Omnis Power USA Inc. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Version Number: OP_EN_2020_GLOBAL_01

Country of Origin: China or Vietnam

^{*}Measuring tolerance:±3%.