



IM 72 C4 PHOTOVOLTAIC MODULES

IM72 SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 310-325 Wp

FEATURES INCLUDE:

- 72 MOTEC multicrystalline solar cells connected in series
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency: maximum efficiency of 16.7%
- Tested up to 5400Pa for maximum load resistance
- Verified resistance against PID effects
- Progressive Power Warranty guarantees 80.2% of rated power at 25 years
- Manufactured globally with world-class quality standards

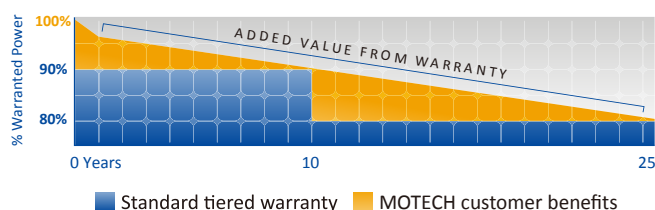
QUALITY, RELIABILITY, AND KWH YIELD

MOTEC modules are powered by industry acknowledged high performance, reliable MOTEC silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.



25-YEAR PROGRESSIVE WARRANTY*

- 25-year progressive power warranty
- 10-year warranty on materials and workmanship



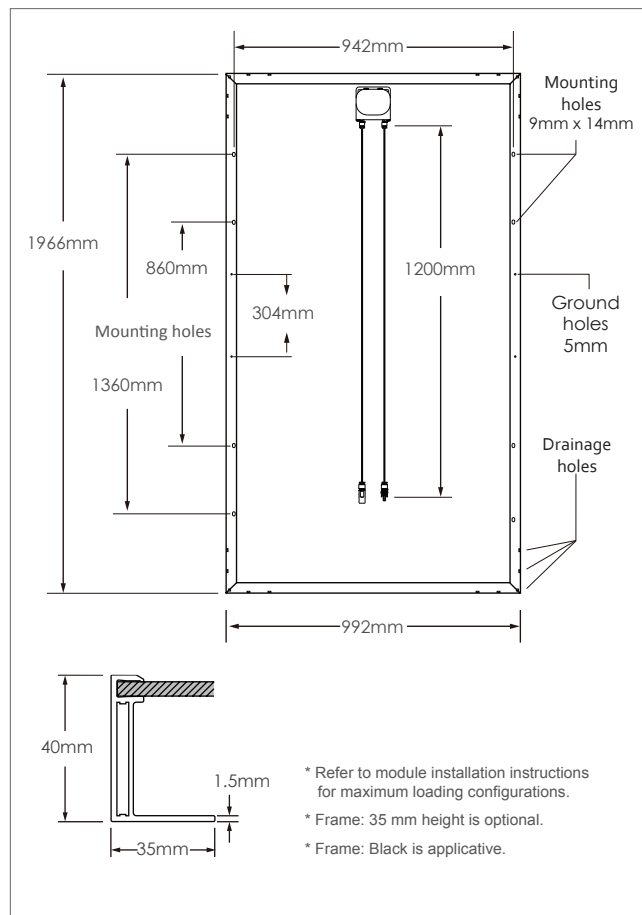
CERTIFICATIONS & STANDARDS*



Application Class A
Safety Class II

* Please refer to our website at www.motechsolar.com for certification and warranty details

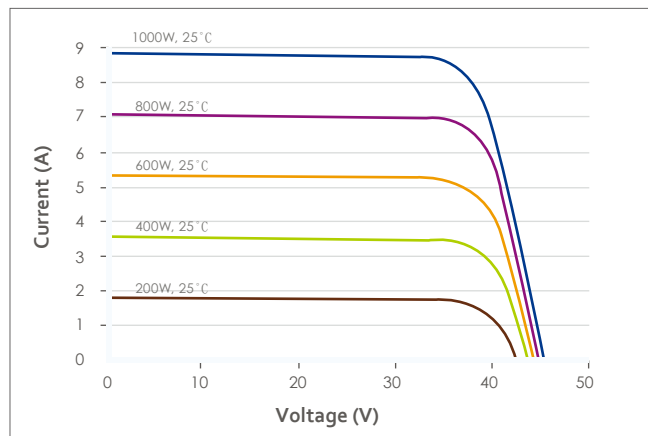
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	1966×992×40 mm
Weight	26.7 kg±5%
Glass	3.2mm low iron tempered glass with anti-reflective coating
Junction Box	IP67 with 3 bypass diodes
Output Cables	Φ4.0mm ² , 1000mm
Connectors	MC4 Compatible
Packing	26 pcs/ pallet, 572 pcs/ container (HQ)

IV CURVE



ELECTRICAL PERFORMANCE

IM72C4-310

IM72C4-315

IM72C4-320

IM72C4-325

Electrical Performance @ STC				
Maximum Power P _{max} [Wp]		310	315	320
Max. Power Voltage	V _{mpp} (V)	36.70	36.94	37.18
Max. Power Current	I _{mpp} (A)	8.45	8.53	8.61
Open Circuit Voltage	V _{oc} (V)	45.31	45.61	45.91
Short Circuit Current	I _{sc} (A)	9.00	9.06	9.12
Module Efficiency (%)		15.9%	16.2%	16.4%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.06	Max. Series Fuse	15A
Voc Temperature Coefficient	β (%/°C)	-0.32	Max. System Voltage	IEC 1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.42	Nominal Operating Cell Temp. (NOCT)	45°C ± 2°C
Efficiency Reduction at 200W/m ² , 25°C		<5%		

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice. Motech reserves the rights of final interpretation and revision on this datasheet.

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Motech Industries, Inc. Solar Division
 Tainan Science Park I No.2, Dashun 9th Rd., Xinshi Dist., Tainan City,
 74145, Taiwan
 Tel: +886-6-5050789 Fax: +886-6-5051789
 E-mail: sales_marketing@motech.com.tw

www.motechsolar.com