

Mono-crystalline PV Modules

- High efficiency solar cells ensure high performance of the solar module and create maximum power output.
- Low Iron Tempered Glass: Anti-reflecting coating and high transmission rate glass increases the power output and mechanical strength of the solar module.
- Aluminum Frame: Without screw, corner connection. 10 holes on the frame can be installed easily.
- Superior Junction Box: Multi function junction box with waterproof capabilities.
- Long Lifespan: ≥ 25 years.
- Tolerance: $\pm 3\%$.
- High performing solar module even in bad weather conditions such as wind and snow.
- Scratch and water resistant panels.
- Certificated by international authority: CE, TUV, IEC.

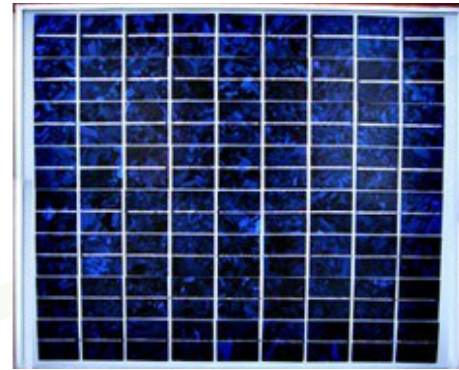


	MS240M	MS250M	MS255M
ELECTRICAL CHARACTERISTICS			
Pmax	240W	250W	255W
Vmp	48.5V	48.54V	48.9V
Imp	4.95A	5.15A	5.21A
Voc	60.63V	60.68V	60.68V
Isc	5.35A	5.56A	5.56A
Eff	14.4%	15%	15%
PHYSICAL CHARACTERISTICS			
Cell Material	Mono-crystalline 125*125	Mono-crystalline 125*125	Mono-crystalline 125*125
Cell Array	8*12/125*125	8*12/125*125	8*12/125*125
Dimensions	1575mm*1082mm*45mm	1575mm*1082mm*45mm	1575mm*1082mm*45mm
Weight	21Kgs	21Kgs	21Kgs
LOADING QUANTITY			
20"	228PCS	228PCS	228PCS
40"	532PCS	532PCS	532PCS
40"HQ		672PCS	672PCS
TEMPERATURE COEFFICIENTS			
Current temperature coefficients	0.0241%/°C	0.0241%/°C	0.0241%/°C
Voltage temperature coefficients	-0.2904%/°C	-0.2904%/°C	-0.2904%/°C
Power temperature coefficients	-0.4183%/°C	-0.4183%/°C	-0.4183%/°C
ABSOLUTE MAXIMUM LIMITS			
Max System Voltage	1000V DC	1000V DC	1000V DC
Operating Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Noct (DEGC)	45°C \pm 3°C	45°C \pm 3°C	45°C \pm 3°C

	MS180M	MS185M	MS190M
ELECTRICAL CHARACTERISTICS			
Pmax	180W	185W	190W
Vmp	36.2V	36.5V	37.1V
Imp	4.97A	5.06A	5.15A
Voc	45.25V	45.63V	44.85V
Isc	5.36A	5.46A	5.54A
Eff	14.1%	14.5%	14.9%
PHYSICAL CHARACTERISTICS			
Cell Material	Mono-crystalline 125*125	Mono-crystalline 125*125	Mono-crystalline 125*125
Cell Array	6*12/125*125	6*12/125*125	6*12/125*125
Dimensions	1580mm*808mm*45mm	1580mm*808mm*45mm	1580mm*808mm*45mm
Weight	Weight: 15.5Kgs	Weight: 15.5Kgs	Weight: 15.5Kgs
LOADING QUANTITY			
20"	264PCS	264PCS	264PCS
40"	616PCS	616PCS	616PCS
TEMPERATURE COEFFICIENTS			
Current temperature coefficients	0.0241%/°C	1.06 \pm 0.01%/K	1.06 \pm 0.01%/K
Voltage temperature coefficients	-0.2904%/°C	-(155 \pm 10)mV/K	-(155 \pm 10)mV/K
Power temperature coefficients	-0.4183%/°C	-(0.5 \pm 0.05)%/K	-(0.5 \pm 0.05)%/K
ABSOLUTE MAXIMUM LIMITS			
Max System Voltage	1000V DC	1000V DC	1000V DC
Operating Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Noct (DEGC)	45°C \pm 3°C	45°C \pm 3°C	45°C \pm 3°C

Poly-crystalline PV Modules

- High efficiency solar cells ensure high performance of the solar module and create maximum power output.
- Low Iron Tempered Glass: Anti-reflecting coating and high transmission rate glass increases the power output and mechanical strength of the solar module.
- Aluminum Frame: Without screw, corner connection. 10 holes on the frame can be installed easily.
- Superior Junction Box: Multi function junction box with waterproof capabilities.
- Long Lifespan: ≥ 25 years.
- Tolerance: $\pm 3\%$.
- High performing solar module even in bad weather conditions such as wind and snow.
- Scratch and moisture resistant panels
- Certificated by international authority: CE, TUV, IEC.



	MS230P	MS240P	MS290P	MS295P
ELECTRICAL CHARACTERISTICS				
Pmax	230W	240W	290W	295W
Vmp	30.4 V	30.6V	37V	37.2V
Imp	7.57A	7.84A	7.84A	7.93A
Voc	38V	38.25V	46.25V	46.5V
Isc	8.18A	8.47A	8.47A	8.56A
Eff	14.3%	14.9%	15.2%	15.2%
PHYSICAL CHARACTERISTICS				
Cell Material	Poly-crystalline 156*156	Poly-crystalline 156*156	Poly-crystalline 156*156	Poly-crystalline 156*156
Cell Array	6*10/156*156	6*10/156*156	6*12/156*156	6*12/156*156
Dimensions	1650mm*992mm*50mm	1650mm*992mm*50mm	1957mm*992mm*50mm	1957mm*992mm*50mm
Weight	21.5Kgs	21.5Kgs	22.5Kgs	22.5Kgs
LOADING QUANTITY				
20"	228PCS	228PCS	—	—
40"	532PCS	532PCS	—	—
TEMPERATURE COEFFICIENTS				
Current temperature coefficients	0.06 \pm 0.01%/K	0.047%/ $^{\circ}$ C	0.06 \pm 0.01%/K	0.06 \pm 0.01%/K
Voltage temperature coefficients	-(155 \pm 10)mV/K	-0.35%/ $^{\circ}$ C	-(155 \pm 10)mV/K	-(155 \pm 10)mV/K
Power temperature coefficients	-(0.5 \pm 0.05)%/K	-0.46%/ $^{\circ}$ C	-(0.5 \pm 0.05)%/K	-(0.5 \pm 0.05)%/K
ABSOLUTE MAXIMUM LIMITS				
Max System Voltage	1000V DC	1000V DC	1000V DC	1000V DC
Operating Temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	-40 $^{\circ}$ C~+85 $^{\circ}$ C	-40 $^{\circ}$ C~+85 $^{\circ}$ C	-40 $^{\circ}$ C~+85 $^{\circ}$ C
Noct (DEGC)	45 $^{\circ}$ C \pm 3 $^{\circ}$ C	45 $^{\circ}$ C \pm 3 $^{\circ}$ C	45 $^{\circ}$ C \pm 3 $^{\circ}$ C	45 $^{\circ}$ C \pm 3 $^{\circ}$ C

Metartec can also provide much larger, tailor-made photovoltaic systems up to 500 KWp, please feel free to contact us to discuss your needs.



For further details on Metartec's Solar Systems, and to ensure you receive the most suitable photovoltaic solution to suit your needs, talk to one of our experts on:

GB: 0845 64 39 772 or NI: 0845 50 40 444, visit www.metartec.com or email info@metartecsolar.com

Elm Park House, Elm Park Court, Pinner, Middlesex HA5 3NN
Solutions House, Unit A19, Sydenham Business Park, 20 Heron Road, Belfast BT3 9LE