MONOCRYSTALLINE SILICON SOLAR PANELS

Our Solar Photovoltaic (PV) Panels are designed for large on- and off-grid electrical power requirements. and offershigh performance of power per square foot of solar array. The panels may be used as components of larger systems to generate electricity in both residential and commercial settings.

We offer performance guarantees for 25 years with a separate quality guarantee for 10 years, depending on product. All our products have the highest certifications such as TÜV, UL, CE, VDE, ISO

Product Characteristics:

•100% EOL inspection, ensuring modules are free from defects
•Modules incorporate high performance bypass diodes to minimize the power drop caused by shading
•Outstanding performance in low-light irradiance environments
•Excellent mechanical load resistance: Certified to withstand high wind loads(2400pa) and snow loads (5400pa)
•High salt and ammonia resistance
•Positive power tolerance: 0-+5w
•10-years 90% of Min. rated output power.and 25-years 80% of Min. rated output power warranty

Manufacturer Characteristics:

Founded in 1984, one of the largest State-Owned Group Corporations of Building & Mechanical Materials Specialization in Design, Manufacturing, and Distribution of Cement, Composite Materials, New Building Materials, and Green Products, with priority given to Solar and Wind Energy Development Projects

Clients in over 120 countries throughout the world, including Mexico, Argentia, Chile, India, USA, Canada, Europe, England, Middle East, Africa, Australia, Asia

Entered into the Green Space in 2005. Annual Capacity is 500MW Solar Panel and 500MW Solar Cell

The opto-electrical specifications shown below are stabilized values being measured at Standard Test Conditions of Multicrystalline Silicon Solar Panels. Irradiance: 1000W/m2; Spectrum AM1.5 at 25°C. The info below is subject to manufacturing tolerances. Where appropriate minutes of measurement are available and are used for the dimensioning of the installation.

MONOCRYSTALLINE SILICON SOLAR PANELS SUMMARY

Monocrystalline Silicon Solar Panel 10W-50W

Max Power Voltage Vmp(V)	17.6	17.6	18.0	17.6	17.4
Max Power Current Imp(A)	0.57	1.14	1.67	2.27	2.87
Open Circuit Voltage Voc (V)	22.2	22.2	22.6	22.2	22.2
Short Circuit Current Isc(A)	0.62	1.24	1.77	2.47	3.15
Max Power Pm(W)	10	20	30	40	50

Monocrystalline Silicon Solar Panel 60W-85W

Max Power Voltage Vmp(V)	18.0	18.2	17.4	17.6	17.8
Max Power Current Imp(A)	3.33	3.57	4.31	4.55	4.78
Open Circuit Voltage Voc (V)	22.6	21.8	22.0	22.2	22.4
Short Circuit Current Isc(A)	3.54	3.80	4.73	4.94	5.13
Max Power Pm(W)	60	65	75	80	85

Monocrystalline Silicon Solar Panel 90W-130W

Max Power Voltage Vmp(V)	18.0	18.2	17.4	18.0	18.2
Max Power Current Imp(A)	5.0	5.22	5.75	6.67	7.14
Open Circuit Voltage Voc (V)	22.6	22.8	22.0	22.6	22.8
Short Circuit Current Isc(A)	5.13	5.31	6.29	7.08	7.60
Max Power Pm(W)	90	95	100	120	130

Monocrystalline Silicon Solar Panel 330W-360W

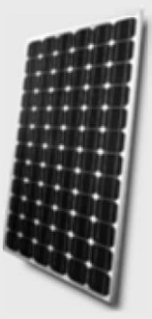
Max Power Voltage Vmp(V)	38.4	38.6	38.8	38.9	39.0	39.2	39.3
Max Power Current Imp(A)	8.59	8.68	8.76	8.87	8.97	9.06	9.16
Open Circuit Voltage Voc (V)	47.3	47.6	47.8	48.0	48.1	48.3	48.6
Short Circuit Current Isc(A)	9.11	9.20	9.29	9.40	9.51	9.60	9.70
Max Power Pm(W)	330	335	340	345	350	355	360

Monocrystalline Silicon Solar Panel 340W-370W

Max Power Voltage Vmp(Y)	38.8	38.9	39.0	39.2	39.3	39.4
Max Power Current Imp(A)	8.76	8.87	8.97	9.06	9.16	9.40
Open Circuit Voltage Voe (V)	47.8	48.0	48.1	48.3	48.6	48.7
Short Circuit Current Iso(A)	9.29	9.40	9.51	9.60	9.70	9.91
Max Power Pm(W)	340	345	350	355	360	370

Monocrystalline Silicon Solar Panel 380W-390W

Max Power Voltage Vmp(V)	39.73	39.85	39.98
Max Power Current Imp(A)	9.57	9.67	9.76
Open Circuit Voltage Voe (V)	47.58	47.68	47.77
Short Circuit Current IsO(A)	9.98	10.09	10,20
Max Power Pm(W)	380	385	390



Monocrystalline Silicon Solar Panel 440W-450W

Max Power Votlage Vmp(V)	**41.1**	41.3	41.5
Max Power Current Imp(A)	10.71	10.78	**10.85**
Open Cirruit Voltage Voe (V)	48.9	49.1	49.3
Short Circuit Current Iso(A)	11.46	11.53	11.60
Max Power Pm(W}	440	445	**450**

Monocrystalline Silicon Solar Panel 530W-545W

Max Power Voltage Vmp(V)	41.45	41.61	41.77
Max Power Current Imp(A)	12.91	12.98	13.05
Open Circuit Voltage Voe (V)	49.31	49.46	49.61
Short Circuit Current Isc(A)	13.79	13.86	13.93
Max Power Pm(W)	535	540	545

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Monocrystalline 275W-300W

RAW MATERIALS AND MECHANICAL PARAMETERS

Type of Cells (mm)	mono 156.75 x 156.75
No. of Cells and Connections	6x 10=60
Dimensions (mm)(L*W*H)	1640 x 992 x 35/40
Weight (kg)	17.9/18.2
Glass	3.2mmTempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP65/IP67
Cable	4mm2, 900mm
Connector	MC4 and MC4 Compatible
Package Configuration	30/26pcs/pallet
40GP	840 pcs (30 Pallet) 728 pcs (26/Pallet)
40HQ	896 pcs (30/Pallet) 784 pcs (26/Pallet)

PERFORMANCE PARAMETERS

Maximum System Voltage	1000V
Operating Temperature	-45-+80'C
Maximum Series Fuse	10A
Maximum Static Load,Front Side (e.x. Snow, Wind)	5400Pa
Maximum Static Load, Back Side (e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)

Rated Maximum Power (Mp)	**275W**	**280W**	**285W**	**290W**	**295W**	**300W**
Power Tolerance	0-+5W					
Module Efficiency	16.90	17.21%	17.52%	17.83%	18.13%	18.44%
Open Circuit Voltage (Voc)	38.5V	38.7V	39.0V	39.2V	39.5V	39.7V
Maximum Power Voltage (Vmp)	31.2V	31.4V	31.6V	31.8V	32.0V	32.2V
Short Circuit Current (Isc)	9.34V	9.45V	9.56V	9.67V	9.77V	9.88V
Maximum PowerCurrent (Imp)	8.81A	8.92A	9.02A	9.12A	9.22A	9.32A
Temperature Coefficient of Isc	+0.06%					
Temperature Coefficient of Voe	-0.32%					
Temperature Coefficient of Pmp	-0.45%					
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C, SpectrumAM: 1.5					

Monocrystalline 330W-360W

RAW MATERIALS AND MECHANICAL PARAMETERS	
Type of Cells (mm)	mono 156.75 x 156.75
No. of Cells and Connections	6x 12=72
Dimensions (mm)(L*W'H)	1956x992x40
Weight (kg)	23.2
Glass	3.2mm Tempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP65/IP67
Cable	4mm2, 900mm
Connector	MC4 and MC4 Compatible
Package Configuration	26pcs/pallet
40GP	624pcs
40HQ	672pcs

PERFORMANCE PARAMETERS	
Maximum System Voltage	1000V
Operating Temperature	-45-+80'C
Maximum Series Fuse	10A
Maximum Static Load, Front Side (e.x. Snow, Wind)	5400Pa
Maximum Static Load, Back Side(e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)							
Rated Maximum Power (Mp)	**330W**	**335W**	**340W**	**345W**	**350W**	**355W**	**360W**
Power Tolerance	0-+5W						
Module Efficiency	17.01%	17.26%	17.52%	17.78%	18.04%	18.30%	18.55%
Open Circuit Voltage (Voc)	47.3V	47.6V	47.8	48.0V	48.1V	48.3V	48.6V
Maximum Power Voltage (Vmp)	38.4V	38.6V	38.8V	38.9V	39.0V	39.2V	39.3V
Short Circuit Current (Isc)	9.11A	9.20A	9.29A	9.40A	9.51A	9.60A	9.70A
Maximum PowerCurrent (Imp)	8.59A	8.68A	8.76A	8.87A	8.97A	9.06A	9.16A
Temperature Coefficient of Isc	+0.06%						
Temperature Coefficient of Voe	-0.32%						
Temperature Coefficient of Pmp	-0.45%						
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C, Spectrum AM: 1.5						

Monocrystalline 340W-370W

RAW MATERIALS AND MECHANICAL PARAMETERS

Type of Cells(mm)	mono 156.75 x 156.75
No. of Cells and Connections	6x 12=72
Dimensions (mm)(L*W'H)	1956 x 992 x 40
Weight(kg)	23.2
Glass	3.2mm Tempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP65/IP67
Cable	4mm2, 900mm
Connector	MC4 and MC4 Compatible
Package Configuration	26pcs/pallet
40GP	624pcs
40HQ	672pcs

PERFORMANCE PARAMETERS

Maximum System Voltage	1500V
Operating Temperature	-45-+80'C
Maximum Series Fuse	10A
Maximum Static Load, Front Side (e.x. Snow, Wind)	5400Pa
Maximum Static Load, Back Side (e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)

Rated Maximum Power (Mp)	**340W**	**345W**	**350W**	**355W**	**360W**	**370W**
Power Tolerance	0-+5W					
Module Efficiency	17.52%	17.78%	18.04%	18.30%	18.55%	19.10%
Open Circuit Voltage (Voc)	47.8V	48.0V	48.1V	48.3V	48.6V	48.7V
Maximum Power Voltage (Vmp)	38.8V	38.9V	39.0V	39.2V	39.3V	39.4V
Short Circuit Current (Isc)	9.29A	9.40A	9.51A	9.60A	9.70A	9.91A
Maximum PowerCurrent (Imp)	8.76A	8.87A	8.97A	9.06A	9.16A	9.40A
Temperature Coefficient of Isc	+0.06%					
Temperature Coefficient of Voe	-0.32%					
Temperature Coefficient of Pmp	-0.45%					
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C, SpectrumAM: 1.5					

Monocrystalline 375W-390W

RAW MATERIALS AND MECHANICAL PARAMETERS

Type of Cells (mm)	mono 156.75 x 156.75
No. of Cells and Connections	6x12=72
Dimensions(mm)(L *W'H)	1956 x 992 x 40
Glass	3.2mm Tempered Glass
Weight (kg)	23.2
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP65/IP67
Cable	4mm2, 900mm
Connector	MC4 and MC4 Compatible
Package Configuration	26pcs/pallet
40GP	624pcs
40HQ	672pcs

PERFORMANCE PARAMETERS

Maximum System Voltage	1000V
Operating Temperature	-45-+80'C
Maximum Series Fuse	20A
Maximum Static Load, Front Side (e.x. Snow, Wind)	5400Pa
Maximum Static Load, Back Side (e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)

Module Type	**375W**	**380W**	**385W**	**390W**
Test Condition				
Rated Maximum Power (Mp)	17.01%	17.26%	17.52%	17.78%
Maximum Power Voltage (Vmp)	38.4V	38.6V	38.8V	38.9V
Maximum Power Current (Imp)				
Open Circuit Voltage (Voc)	47.3V	47.6V	47.8V	48.0V
Short Circuit Current (Isc)	9.11A	9.20A	9.29A	9.40A
Module Efficiency (%)	8.59A	8.68A	8.76A	8.87A
Temperature Coefficient of Isc	+0.06%			
Temperature Coefficient of Voc	-0.32%			
Temperature Coefficient of Pmp	-0.45%			
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C,			

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Monocrystalline 380W-390W

RAW MATERIALS AND MECHANICAL PARAMETERS

Type of Cells (mm)	mono 158.75 x 158.75
NO. of Cells and Connections	6x 12=72
Dimensions(mm)(L *W'H)	1979 x 1002 x 40
Glass	3.2mm Tempered Glass
Weight (kg)	23
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP65/IP67
Cable	4mm2, 900mm
Connector	MC4 and MC4 Compatible
Package Configuration	26pcs/pallet
40HQ	638 pcs

PERFORMANCE PARAMETERS

Maximum System Voltage	1500V
Operating Temperature	-40-+80'C
Maximum Series Fuse	30A
Maximum Static Load,Front Side (e.x. Snow,Wind)	5400Pa
Maximum Static Load, Back Side (e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)

Rated Maximum Power (Mp)	**380W**	**385W**	**390W**
Power Tolerance	0 - +5W		
Module Efficiency (%)	19.19%	19.44%	19.69%
Open Circuit Voltage (Voc)	47.58V	47.68V	47.77V
Rated Maximum Power (Mp)	17.26%	17.52%	17.78%
Maximum Power Voltage (Vmp)	39.73V	39.85V	39.98V
Short Circuit Current (Isc)	9.98A	10.09A	10.20A
Maximum Power Current (Imp)	9.57A	9.67A	9.76A
Temperature Coefficient of Isc	+0.06%		
Temperature Coefficient of Voc	-0.32%		
Temperature Coefficient of Pmp	-0.45%		
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C, Spectrum AM: 1.5		

Halt-Cut Monocrystalline Silicon Module 375W-390W

RAW MATERIALS AND MECHANICAL PARAMETERS

No. of Cells and Connections	6x 24 = 144
Dimensions (mm)(L *W'H)	2094 x 1038 x 35
Weight (kg)	23.5
Glass	3.2mm Tempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP68
Cable	4mm2, 300mm (length can be customized)
Connector	MC4 and MC4 Compatible
20HQ	150 pcs
40HQ	660 pcs

PERFORMANCE PARAMETERS

Maximum System Voltage	1500V
Operating Temperature	-40-+85'C
Maximum Series Fuse	20A
Maximum Static Load, Front Side (e.x. Snow, Wind)	5400Pa
Maximum Static Load, Back Side(e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)

Rated Maximum Power (Mp)	**440W**	**445W**	**450W**
Power Tolerance	0-+5W		
Module Efficiency	20.2%	20.5%	20.7%
Open Circuit Voltage (Voc)	48.9V	49.1V	49.3V
Maximum Power Voltage (Vmp)	41.1V	41.3V	41.5V
Short Circuit Current (Isc)	11.46A	11.53A	11.6A
Maximum PowerCurrent (Imp)	10.71	10.78A	10.85A
Temperature Coefficient of Isc	+0.048%		
Temperature Coefficient of Voe	-0.27%		
Temperature Coefficient of Pmp	-0.35%		
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C, SpectrumAM: 1.5		

Monocrystalline Silicon Module 535W - 545W

RAW MATERIALS AND MECHANICAL PARAMETERS

No. of Cells and Connections	144 (2 x (6*12))
Dimensions (mm)(L*W'H)	2256 x 1133 x 35
Weight(kg)	32
Glass	3.2mm Tempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized Aluminium Alloy
Junction-Box	IP68
Cable	4mm2, 400mm (length can be customized)
Connector	MC4 and MC4 Compatible
40HQ	660 pcs

PERFORMANCE PARAMETERS

Maximum System Voltage	1500V
Operating Temperature	-40-+85'C
Maximum Series Fuse	25A
Maximum Static Load, Front Side (e.x. Snow,Wind)	5400Pa
Maximum Static Load, Back Side(e.x. Wind)	2400Pa
Application Grade	Class A

ELECTRICAL PARAMETERS (STANDARD TEST CONCLUSION)

Rated Maximum Power (Mp)	535Q	540W	545W
Power Tolerance	0-+5W		
Module Efficiency	20.93%	21.13%	21.32%
Open Circuit Voltage (Voc)	49.31V	49.46V	49.61V
Maximum Power Voltage (Vmp)	41.45V	41.61V	41.77V
Short Circuit Current (Isc)	13.79A	13.86A	13.93A
Maximum PowerCurrent (Imp)	12.91A	12.98A	13.05A
Temperature Coefficient of Isc	+0.048%		
Temperature Coefficient of Voe	-0.29%		
Temperature Coefficient of Pmp	-0.36%		
Standard Test Condition	Irradiance:1000W/M2, Cell Temperature:25'C, Spectrum AM: 1.5		

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