



Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS010-12M

10W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.29
Current Temperature Coefficient (Isc)	β	%/°C	0.05
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

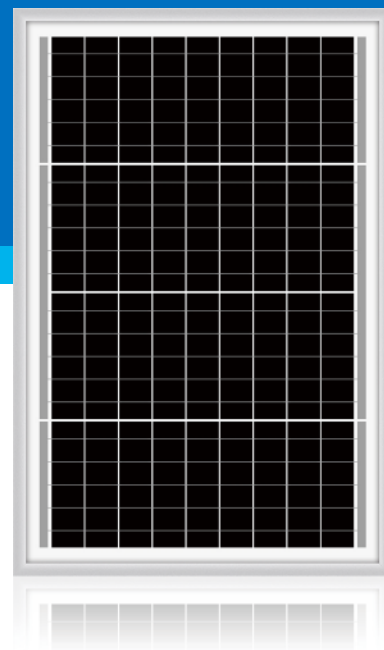
Mechanical Data

Solar Cell	Monocrystalline, 76.5x19.59mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5,400Pa		
Max. Static Wind Load, Back	2,400Pa		
Junction Box	Potted, 1,000VDC, IP67, 2 Schottky Bypass Diodes		
Cables & Connectors	/		

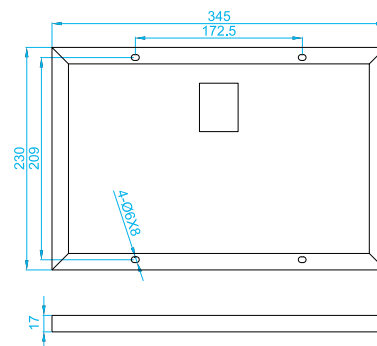
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS010-12M		
Nominal Peak Power	Pmax	Wp	10
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.6
Max. Power Current	Imp	A	0.54
Open-circuit Voltage	Voc	V	22.6
Short-circuit Current	Isc	A	0.58
Module Efficiency	η_m	%	12.6
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		6
Max. System voltage	DC	V	1,000
Weight	KGS		0.8
Dimension	MM		230*345*17



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

Shanghai Ouxian Trading Co.,Ltd
 Add: Building 169 , No 4908 CaoAn Road ,Jiading District ,
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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS010-12P

10W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

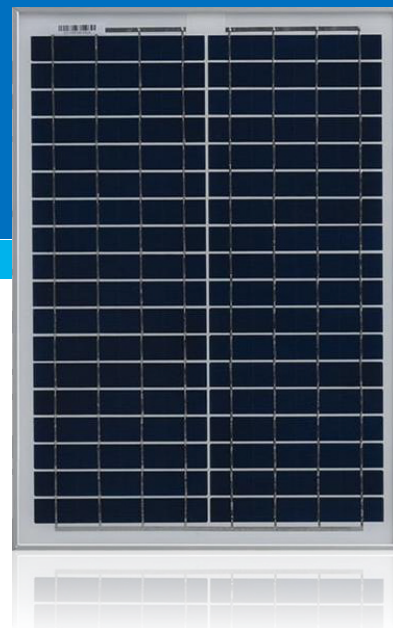
Mechanical Data

Solar Cell	Poly-crystalline, 76.5*21.0mm
Arrangement	36Cells (4*9)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5400Pa
Max. Static Wind Load, Back	2400Pa
Junction Box	IP67
Cables & Connectors	As Per Required

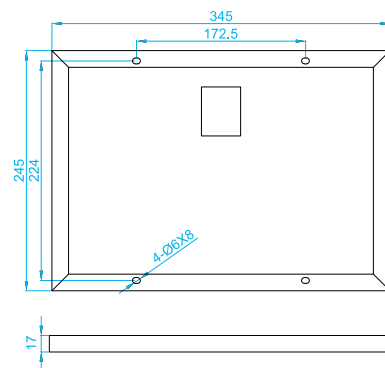
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS010-12P		
Nominal Peak Power	Pmax	Wp	10
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18
Max. Power Current	Imp	A	0.56
Open-circuit Voltage	Voc	V	22.2
Short-circuit Current	Isc	A	0.6
Module Efficiency	η_m	%	12.6
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	6
Max. System voltage	DC	V	1000
Weight		KGS	0.8
Dimension		MM	245*345*17



Dimensions unit : mm



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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS020-12M

20W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

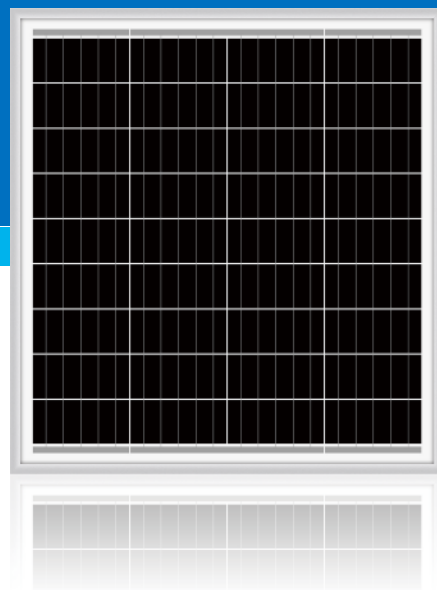
Mechanical Data

Solar Cell	Monocrystalline, 76.5*34.83mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

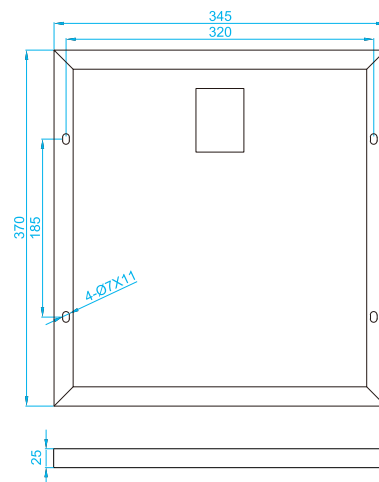
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS020-12M		
Nominal Peak Power	Pmax	Wp	20
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19
Max. Power Current	Imp	A	1.06
Open-circuit Voltage	Voc	V	23
Short-circuit Current	Isc	A	1.14
Module Efficiency	η_m	%	15.7
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	6
Max. System voltage	DC	V	1,000
Weight		KGS	1.4
Dimension		MM	370*345*25



Dimensions unit : mm



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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS020-12P

20W

Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

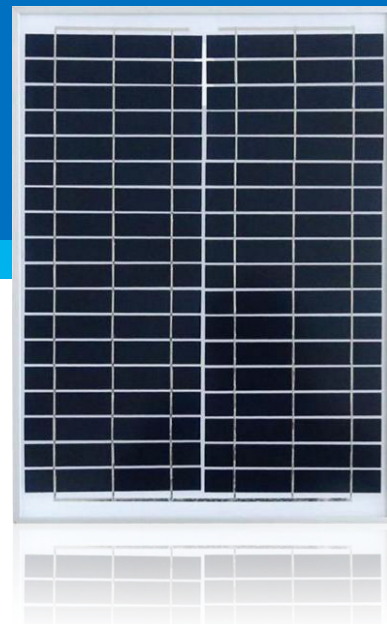
Mechanical Data

Solar Cell	Poly-crystalline, 76.5*39.18mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

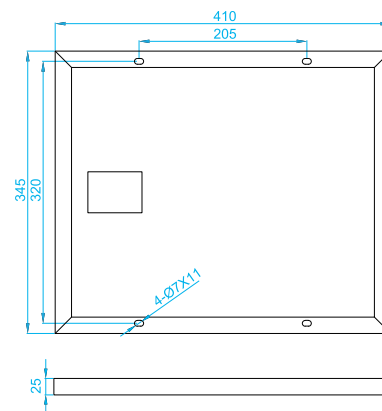
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS020-12P		
Nominal Peak Power	Pmax	Wp	20
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.4
Max. Power Current	Imp	A	1.09
Open-circuit Voltage	Voc	V	22.6
Short-circuit Current	Isc	A	1.18
Module Efficiency	η_m	%	14.1
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		6
Max. System voltage	DC	V	1,000
Weight	KGS		1.5
Dimension	MM		410*345*25



Dimensions unit : mm



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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS030-12M

30W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

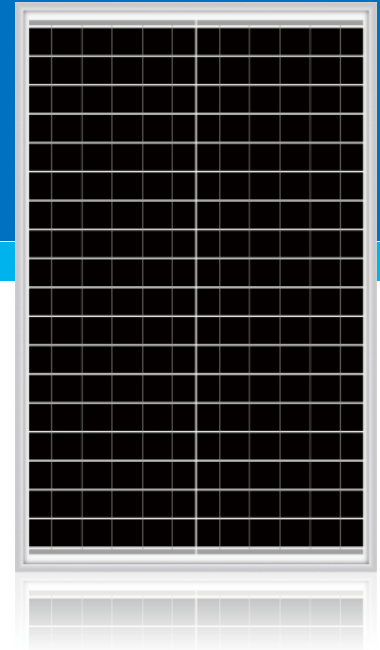
Mechanical Data

Solar Cell	Monocrystalline, 158.75*26.12mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

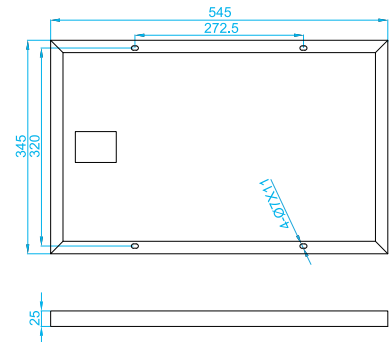
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS030-12M		
Nominal Peak Power	Pmax	Wp	30
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	1.58
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	1.71
Module Efficiency	η_m	%	16.0
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		6
Max. System voltage	DC	V	1,000
Weight	KGS		2.0
Dimension	MM		545*345*25



Dimensions unit : mm



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Model No. FDS030-12P

30W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

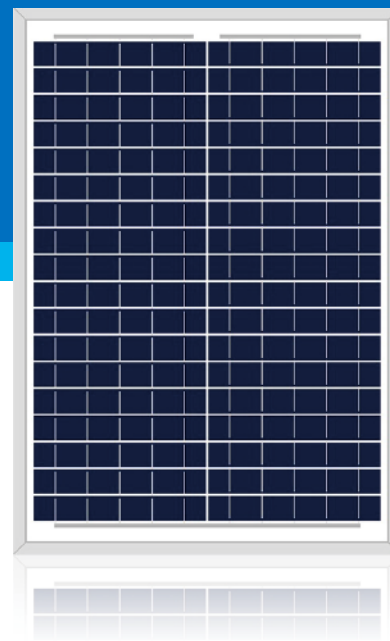
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*31.35mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

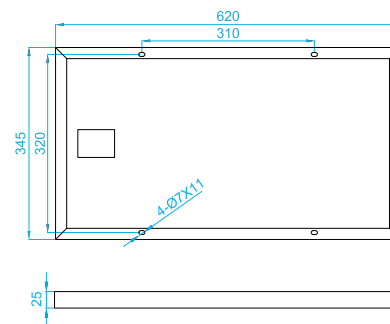
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS030-12P		
Nominal Peak Power	Pmax	Wp	30
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.0
Max. Power Current	Imp	A	1.67
Open-circuit Voltage	Voc	V	22.2
Short-circuit Current	Isc	A	1.77
Module Efficiency	η_m	%	14.4
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		6
Max. System voltage	DC	V	1,000
Weight	KGS		2.2
Dimension	MM		620*345*25



Dimensions unit : mm



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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS040-12

40W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

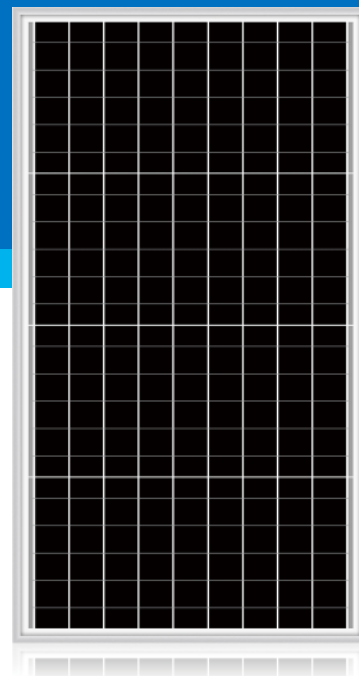
Mechanical Data

Solar Cell	Mono-crystalline, 158.75*34.83mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP65		
Cables & Connectors	As Per Requirement		

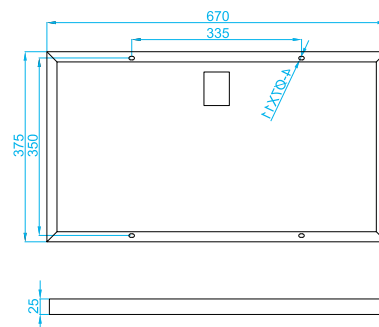
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS040-12M		
Nominal Peak Power	P _{max}	Wp	40
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	V _{mp}	V	19.0
Max. Power Current	I _{mp}	A	2.11
Open-circuit Voltage	V _{oc}	V	23.0
Short-circuit Current	I _{sc}	A	2.28
Module Efficiency	η_m	%	16.0
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		6
Max. System voltage	DC	V	1,000
Weight	KGS		2.9
Dimension	MM		375*670*25



Dimensions unit : mm



Materials & Workmanship Warranty



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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS040-12P

40W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

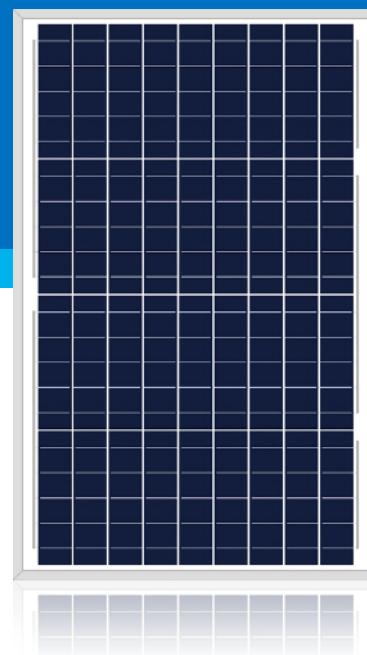
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*39.18mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP65		
Cables & Connectors	As Per Requirement		

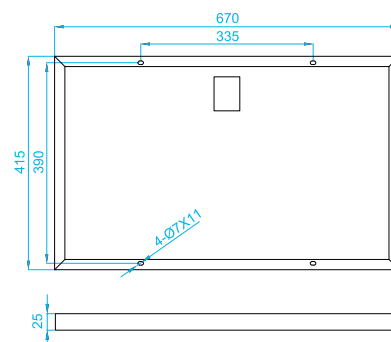
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS040-12P		
Nominal Peak Power	Pmax	Wp	40
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.4
Max. Power Current	Imp	A	2.18
Open-circuit Voltage	Voc	V	22.6
Short-circuit Current	Isc	A	2.36
Module Efficiency	η_m	%	14.4
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		6
Max. System voltage	DC	V	1,000
Weight	KGS		2.9
Dimension	MM	415*670*25	



Dimensions unit : mm



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Monocrystallin Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS050-12M

50W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

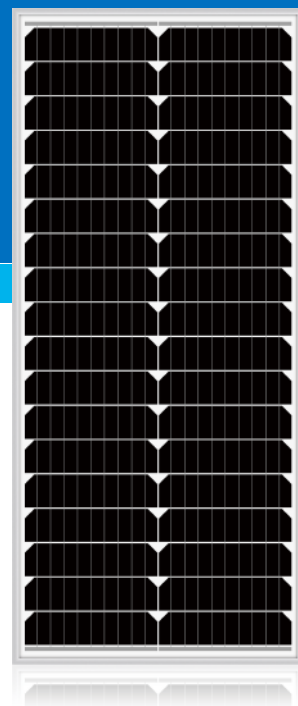
Mechanical Data

Solar Cell	Monocrystalline, 166*41.5mm
Arrangement	36Cells (4*9)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5400Pa
Max. Static Wind Load, Back	2400Pa
Junction Box	IP67
Cables & Connectors	As Per Requirement

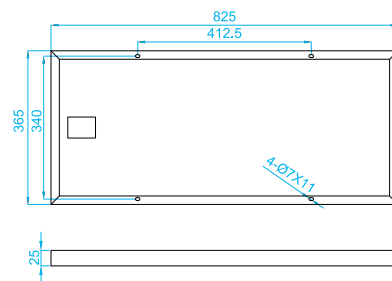
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS050-12M		
Nominal Peak Power	P _{max}	Wp	50
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	V _{mp}	V	19.0
Max. Power Current	I _{mp}	A	2.64
Open-circuit Voltage	V _{oc}	V	22.4
Short-circuit Current	I _{sc}	A	2.86
Module Efficiency	η_m	%	16.4
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	10
Max. System voltage	DC	V	1,000
Weight		KGS	3.2
Dimension		MM	825*365*25



Dimensions unit : mm



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Model No. FDS050-12P

50W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

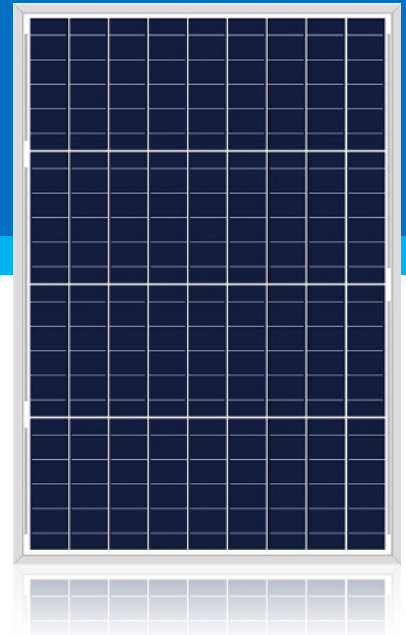
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*52.25mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

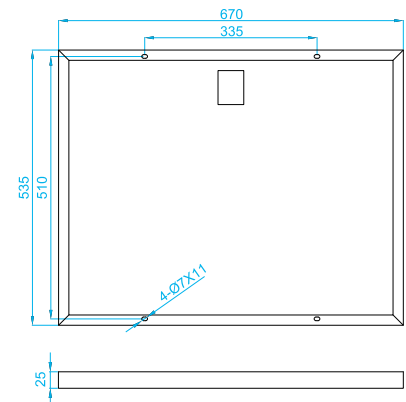
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS050-12P		
Nominal Peak Power	Pmax	Wp	50
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.2
Max. Power Current	Imp	A	2.75
Open-circuit Voltage	Voc	V	22.4
Short-circuit Current	Isc	A	2.95
Module Efficiency	η_m	%	14.8
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	10
Max. System voltage	DC	V	1,000
Weight		KGS	3.6
Dimension		MM	535*670*25



Dimensions unit : mm



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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS060-12M

60W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

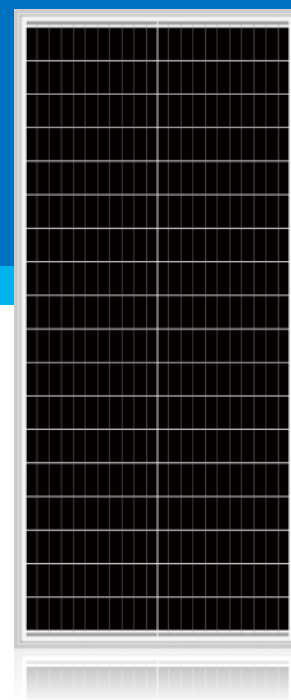
Mechanical Data

Solar Cell	Monocrystalline, 182*45.5mm
Arrangement	36Cells (4*9)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5400Pa
Max. Static Wind Load, Back	2400Pa
Junction Box	IP67
Cables & Connectors	As Per Requirement

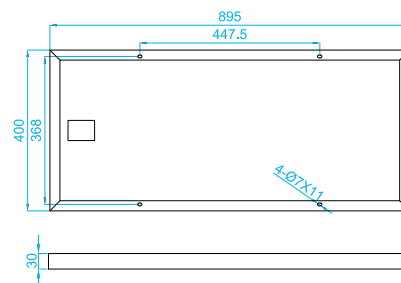
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS060-12M		
Nominal Peak Power	Pmax	Wp	60
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	3.16
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	3.51
Module Efficiency	η_m	%	16.7
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	10
Max. System voltage	DC	V	1,000
Weight		KGS	4.0
Dimension		MM	895*400*30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

Shanghai Ouxian Trading Co.,Ltd
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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS060-12P

60W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

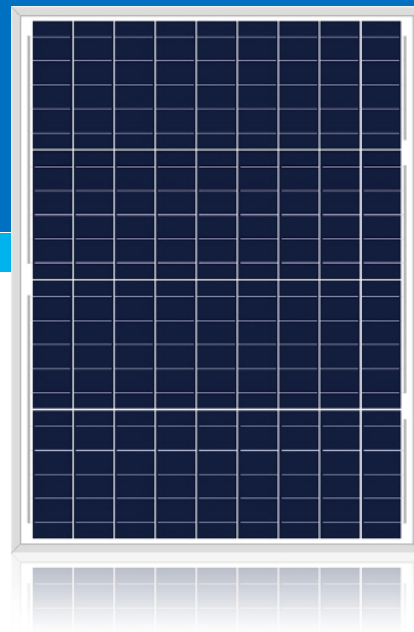
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*62.7mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

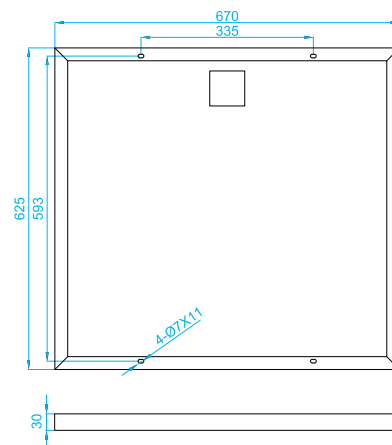
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS060-12P		
Nominal Peak Power	Pmax	Wp	60
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.0
Max. Power Current	Imp	A	3.34
Open-circuit Voltage	Voc	V	22.2
Short-circuit Current	Isc	A	3.54
Module Efficiency	η_m	%	15.2
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		10
Max. System voltage	DC	V	1,000
Weight	KGS		4.3
Dimension	MM		625*670*30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS080-12M

80W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

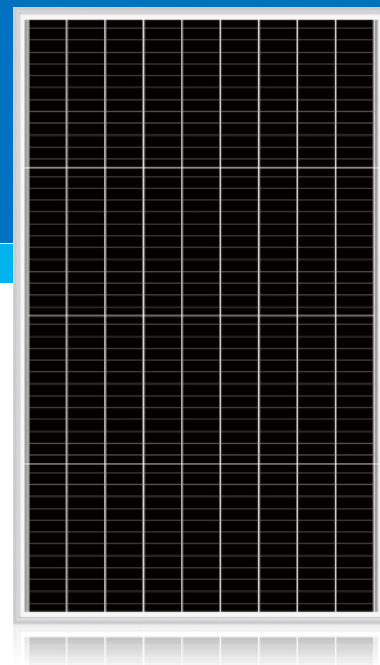
Mechanical Data

Solar Cell	Monocrystalline, 210*52.5mm
Arrangement	36Cells (4*9)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5400Pa
Max. Static Wind Load, Back	2400Pa
Junction Box	IP67
Cables & Connectors	As Per Requirement

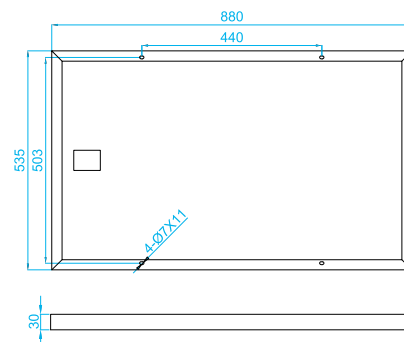
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS080-12M		
Nominal Peak Power	Pmax	Wp	80
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	4.21
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	4.57
Module Efficiency	η_m	%	17.3
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	10
Max. System voltage	DC	V	1,000
Weight		KGS	5.1
Dimension		MM	880*535*30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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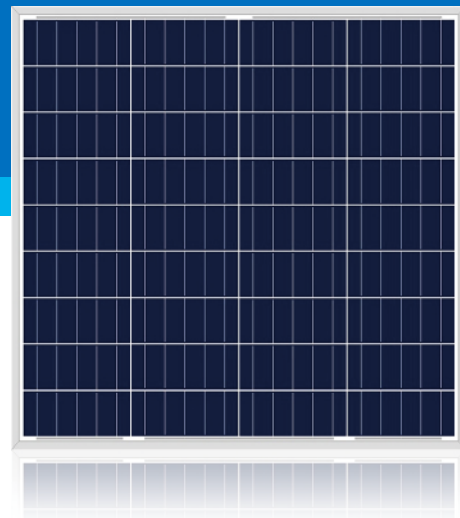


Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS080-12P

80W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

Mechanical Data

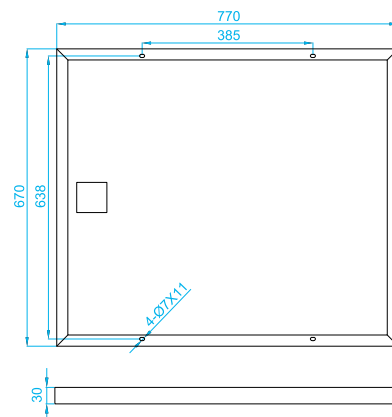
Solar Cell	Poly-crystalline, 156.75*78.375mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS080-12P		
Nominal Peak Power	Pmax	Wp	80
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.4
Max. Power Current	Imp	A	4.35
Open-circuit Voltage	Voc	V	22.6
Short-circuit Current	Isc	A	4.72
Module Efficiency	η_m	%	15.5
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		10
Max. System voltage	DC	V	1,000
Weight	KGS		5.6
Dimension	MM		770*670*30

Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS100-12M

100W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.29
Current Temperature Coefficient (Isc)	β	%/°C	0.05
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

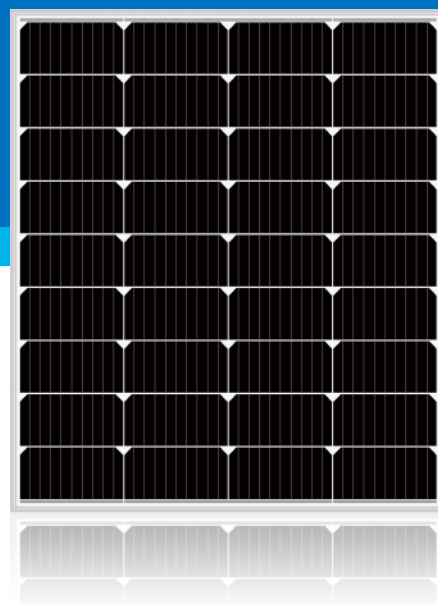
Mechanical Data

Solar Cell	Monocrystalline, 166*83.0mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5,400Pa		
Max. Static Wind Load, Back	2,400Pa		
Junction Box	Potted, 1,000VDC, IP67,2 Schoktty Bypass Diodes		
Cables & Connectors	/		

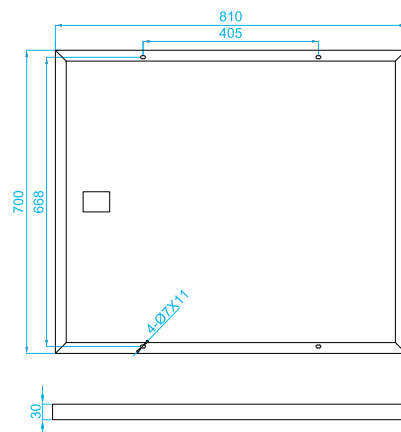
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS100-12M		
Nominal Peak Power	Pmax	Wp	100
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	5.27
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	5.72
Module Efficiency	η_m	%	17.7
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		10
Max. System voltage	DC	V	1,000
Weight	KGS		6.3
Dimension	MM		810*700*30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS100-12P

100W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.36
Current Temperature Coefficient (Isc)	β	%/°C	0.033
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.44

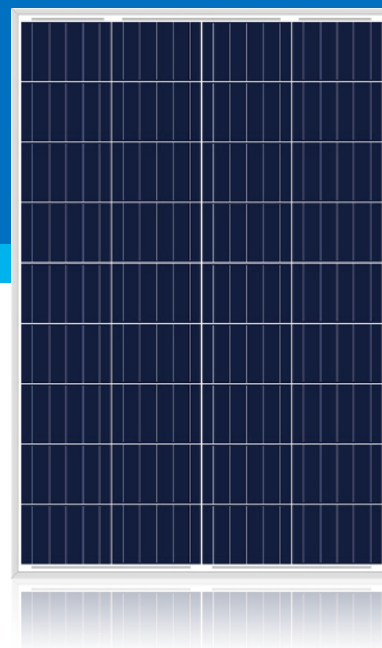
Mechanical Data

Solar Cell	Poly-crystalline, 156.75* 100mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

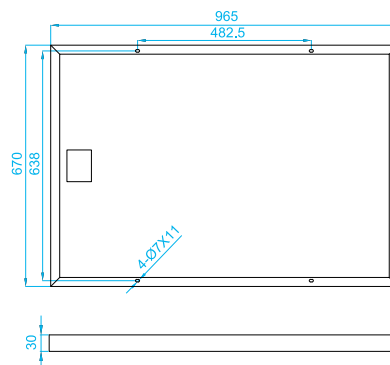
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS100-12P		
Nominal Peak Power	Pmax	Wp	100
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.2
Max. Power Current	Imp	A	5.5
Open-circuit Voltage	Voc	V	22.4
Short-circuit Current	Isc	A	5.91
Module Efficiency	η_m	%	15.8
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	10
Max. System voltage	DC	V	1,000
Weight		KGS	7.0
Dimension		MM	965×670×30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS120-12M

120W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

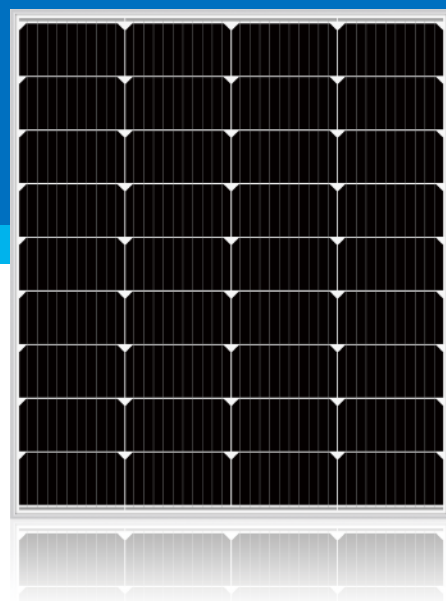
Mechanical Data

Solar Cell	Monocrystalline, 182*91mm
Arrangement	36Cells (4*9)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5400Pa
Max. Static Wind Load, Back	2400Pa
Junction Box	IP67
Cables & Connectors	As Per Requirement

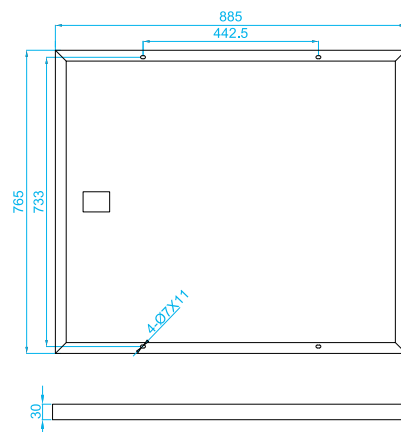
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS120-12M		
Nominal Peak Power	Pmax	Wp	120
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	6.32
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	6.86
Module Efficiency	η_m	%	17.8
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	10
Max. System voltage	DC	V	1,000
Weight		KGS	7.4
Dimension		MM	885*765*30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS120-12P

120W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

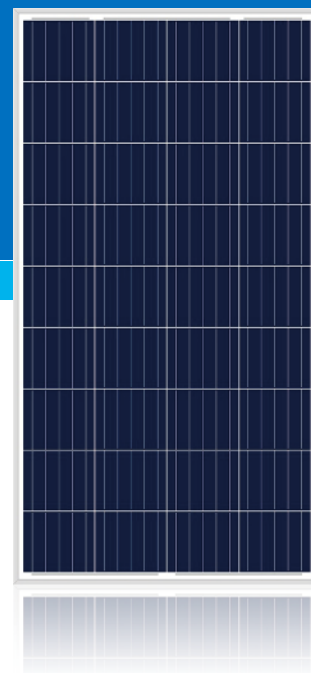
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*117.56mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5400Pa		
Max. Static Wind Load, Back	2400Pa		
Junction Box	IP67		
Cables & Connectors	As Per Requirement		

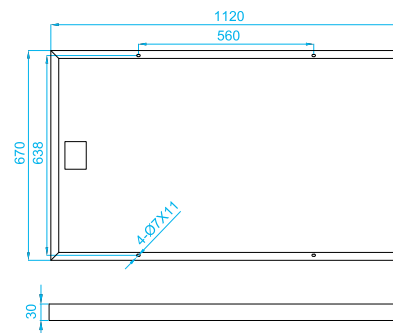
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS120-12P		
Nominal Peak Power	Pmax	Wp	120
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	18.4
Max. Power Current	Imp	A	6.53
Open-circuit Voltage	Voc	V	22.6
Short-circuit Current	Isc	A	7.08
Module Efficiency	η_m	%	16.0
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating	A		10
Max. System voltage	DC	V	1,000
Weight	KGS		8.3
Dimension	MM	1120*670*30	



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS110-12M150

150W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.29
Current Temperature Coefficient (Isc)	β	%/°C	0.05
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

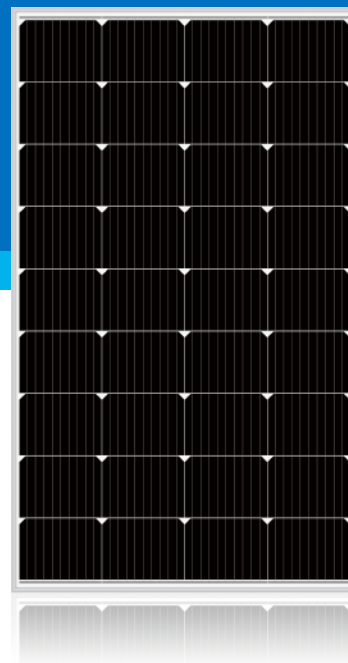
Mechanical Data

Solar Cell	Monocrystalline, 166*124.5
Arrangement	36Cells (4*9)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5,400Pa
Max. Static Wind Load, Back	2,400Pa
Junction Box	Potted, 1,000VDC, IP67, 2 Schottky Bypass Diodes
Cables & Connectors	Dia. 4.0mm2(12AWG), L 900mm

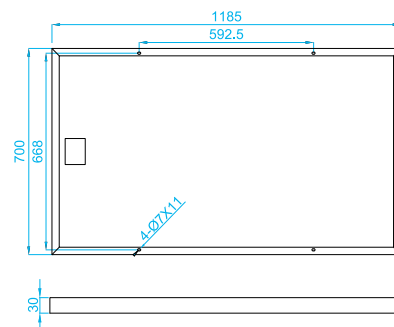
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS110-12M150		
Nominal Peak Power	Pmax	Wp	150
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	7.90
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	8.58
Module Efficiency	η_m	%	18.1
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating		A	15
Max. System voltage	DC	V	1,000
Weight		KGS	9.2
Dimension		MM	1185*700*30



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS150-12P

150W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

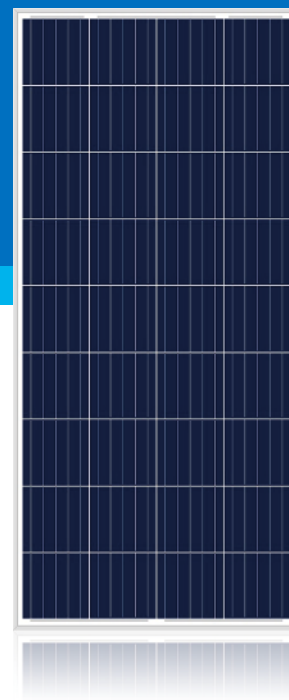
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*156.75mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5,400Pa		
Max. Static Wind Load, Back	2,400Pa		
Junction Box	Potted, 1,000VDC, IP67, 2 Schottky Bypass Diodes		
Cables & Connectors	Dia. 4.0mm ² (12AWG), L 900mm, MC4 Compatible Connectors		

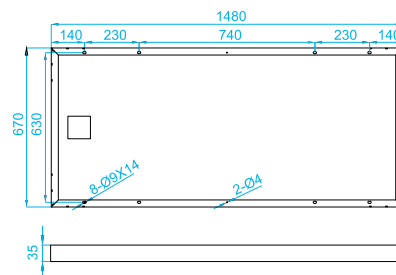
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS150-12P		
Nominal Peak Power	P _{max}	Wp	150
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	V _{mp}	V	18.0
Max. Power Current	I _{mp}	A	8.34
Open-circuit Voltage	V _{oc}	V	22.2
Short-circuit Current	I _{sc}	A	8.95
Module Efficiency	η_m	%	15.1
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	15
Max. System voltage	DC	V	1,000
Weight		KGS	11.2
Dimension		MM	1480*670*35



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS180-24M200



200W

Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

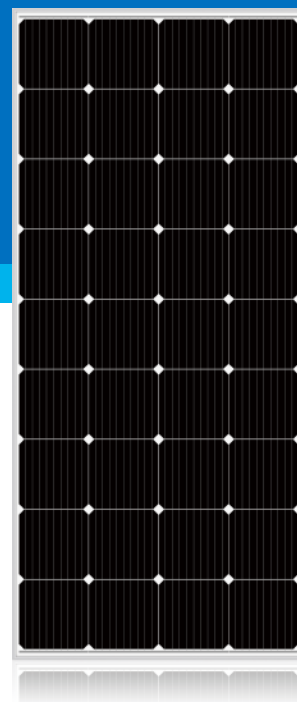
Mechanical Data

Solar Cell	Monocrystalline, 166*166mm		
Arrangement	36Cells (4*9)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5,400Pa		
Max. Static Wind Load, Back	2,400Pa		
Junction Box	Potted, 1,000VDC, IP67, 2 Schottky Bypass Diodes		
Cables & Connectors	Dia. 4.0mm2(12AWG), L 900mm		

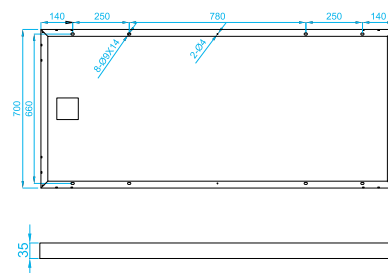
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS180-24M200		
Nominal Peak Power	Pmax	Wp	200
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	19.0
Max. Power Current	Imp	A	10.53
Open-circuit Voltage	Voc	V	23.0
Short-circuit Current	Isc	A	11.69
Module Efficiency	η_m	%	18.0
Operating Temperature	°C		-40 to +85
Max Series Fuse Rating		A	15
Max. System voltage	DC	V	1,000
Weight		KGS	12.8
Dimension		MM	1560*700*35



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Polycrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. FDS200-24P

200W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

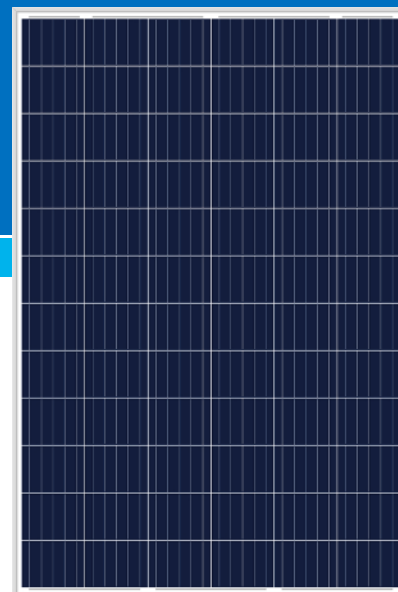
Mechanical Data

Solar Cell	Poly-crystalline, 156.75*100mm		
Arrangement	72Cells (6*12)		
Front Glass	3.2mm Tempered		
Frame	Anodized Aluminium		
Max. Static Snow Load, Front	5,400Pa		
Max. Static Wind Load, Back	2,400Pa		
Junction Box	Potted, 1,000VDC, IP67, 2 Schottky Bypass Diodes		
Cables & Connectors	Dia. 4.0mm2(12AWG), L 900mm		

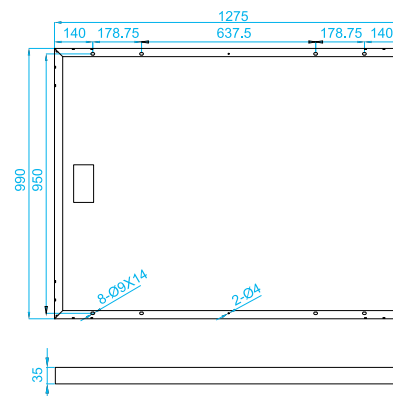
Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS200-24P		
Nominal Peak Power	Pmax	Wp	200
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	36.4
Max. Power Current	Imp	A	5.50
Open-circuit Voltage	Voc	V	44.8
Short-circuit Current	Isc	A	6.03
Module Efficiency	η_m	%	16.2
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	15
Max. System voltage	DC	V	1,000
Weight		KGS	14.2
Dimension		MM	1275*990*35



Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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Monocrystalline Solar Photovoltaic Module With PERC Cell Technology

FDS280-24M395



WHY US

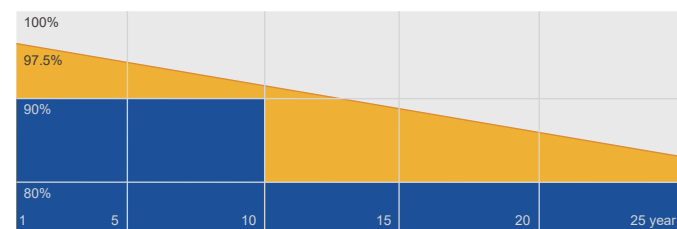
- Antireflective coating and highly transparent solar glass maximizing energy yield
- Quality test during all manufacturing process. Only modules that achieve the designated nominal performance or greater in tests are dispatched
- High yield under weak light condition by using high efficient cells
- Industry leading module power output warranty
- Guaranteed average positive power output to ensure energy yield reliability

APPLICATION

- Commercial/industrial building roof top system
- Residential roof top system
- Solar power plants
- Off-grid system
- Other grid-tied application

Superior Warranty

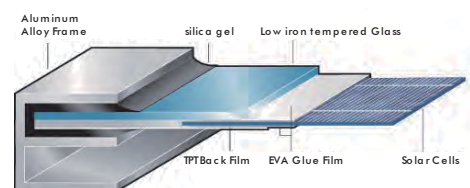
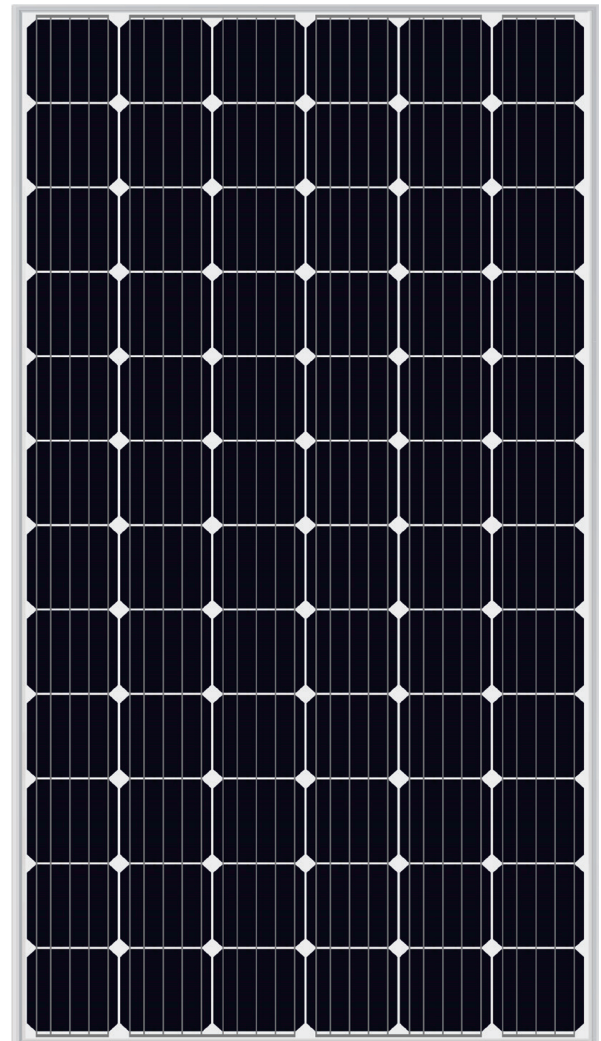
- 12-year product warranty
- 25-year linear power output warranty



■ FS Linear Power Warranty ■ Industry Warranty



Qualified, IEC 61215
Safety tested, IEC 61730
Periodic Inspection
Power Controlled



Solar PV Module structure diagram



Modules are assembled with high quality, smooth aluminum alloy frames



ELECTRICAL DATA

Model No.	FDS280-24M390	FDS280-24M395	FDS280-24M400		
Maximum Power (Pmax)	390WP	395WP	400WP		
Maximum Power Voltage (Vmp)	41.1V	41.4V	41.7V		
Maximum Power Current (Imp)	9.49A	9.55A	9.60A		
Open Circuit Voltage (Voc)	49.3V	49.9V	49.8V		
Short Circuit Current (Isc)	10.12A	10.23A	10.36A		
Power Tolerance (%)	0 - +3				
Maximum System Voltage (Vdc)	600V(UL) / 1000V(TUV)DC				
Module Efficiency	19.67%	20.0%	20.17%		

STANDARD TEST CONDITIONS (STC) - AM 1.5; IRRADIATION 1000W/M² CELL TEMP. 25 °C

CELL TECHNOLOGY AND MECHANICAL DATA

Cells Type and Size	PERC Monocrystalline 158.75 x 158.75mm
Number and Array of Cell	72pcs / 6 x 12
Frame structure	Anodized Aluminum Alloy
Front glass and thickness	High transmitted, Low iron tempered Glass, 3.2mm
Junction Box	IP65 Rated
Connectors, Cable and Length	TUV1x4.0MM ² / UL12AWG; Length 900mm/1200mm

THERMAL PERFORMANCE

Temp. coefficient of Pmax (%/°C)	-0.37
Temp. coefficient of Voc (%/°C)	-0.28
Temp. coefficient of Isc (%/°C)	0.05
Nominal operating Cell Temp.(NOCT)	45 ± 2°C
Operating and Storage Temp.	-20+85

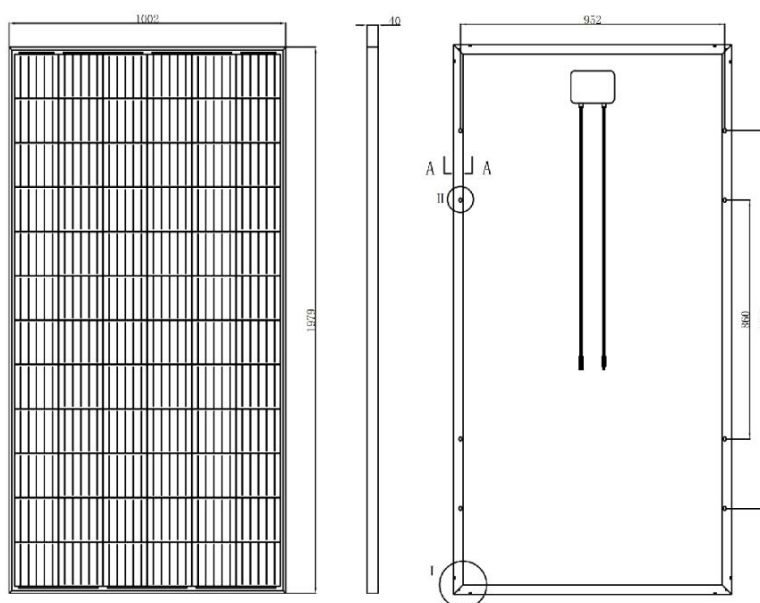
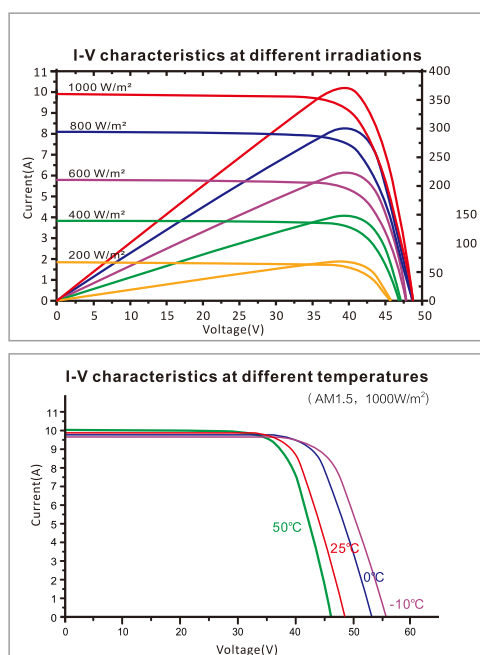
MODULE DIMENSIONS

Dimension	1979x1002x40mm
Weight	22.5kg

PACKING DATA

	40'HC	20'GP
Modules/Pallet	26	26
Pallets/Container	22	10
Modules/Container	260	

ELECTRICAL CURVES



Unit: mm[inch]

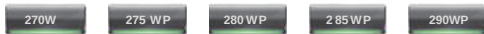
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Polycrystalline Solar Photovoltaic Module

FDS220-20P280



WHY US

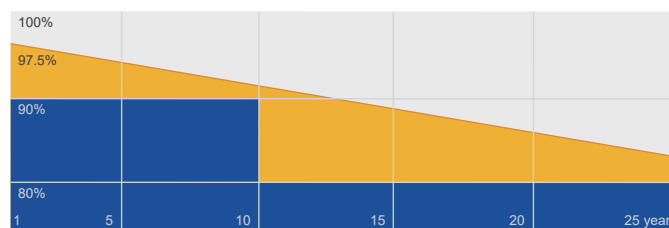
- Antireflective coating and highly transparent solar glass maximizing energy yield
- Quality test during all manufacturing process. Only modules that achieve the designated nominal performance or greater in tests are dispatched
- High yield under weak light condition by using high efficient cells
- Industry leading module power output warranty
- Guaranteed average positive power output to ensure energy yield reliability

APPLICATIONS

- Commercial/ industrial building roof top system
- Residential roof top system
- Solar power plants
- Off-grid system
- Other grid-tied application

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty



■ FS Linear Power Warranty ■ Industry Warranty

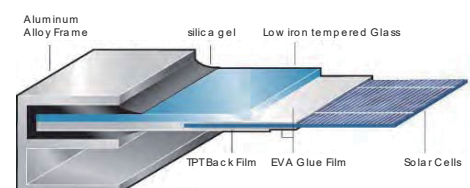
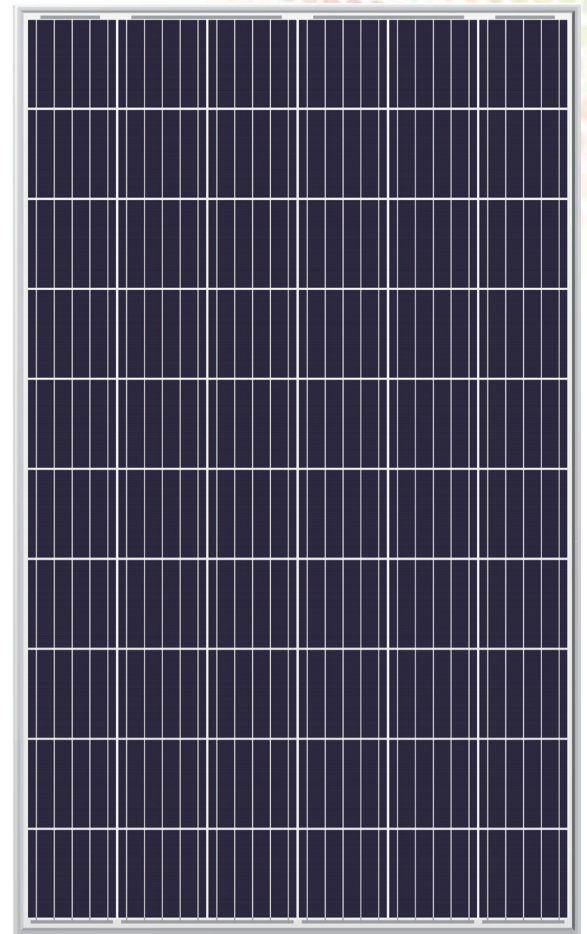


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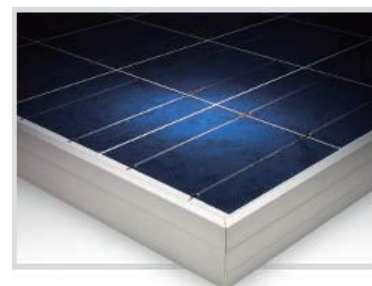
Safety tested, IEC 61730

Periodic Inspection

Power Controlled



Solar PV Module structure diagram



Modules are assembled with high quality, smooth aluminum alloy frames



ELECTRICAL DATA

Model No.	FDS220-20P275	FDS220-20P280
Maximum Power (Pmax)	275Wp	280Wp
Maximum Power Voltage (Vmp)	32.0V	31.5V
Maximum Power Current (Imp)	8.61A	8.90A
Open Circuit Voltage (Voc)	39.1V	38.3V
Short Circuit Current (Isc)	9.15A	9.40A
Power Tolerance (Wp)	0 to 5W	0 to 5W
Maximum System Voltage (Vdc)	600V(UL) / 1000V(TUV)DC	
Module Efficiency	16.8%	17.2%

STANDARD TEST CONDITIONS (STC) - AM 1.5; IRRADIATION 1000W/M²; CELL TEMP. 25°C

CELL TECHNOLOGY AND MECHANICAL DATA

Cells Type and Size	Polycrystalline 156.75x156.75mm
Number and Array of Cell	60pcs / 6 x 10
Frame structure	Anodized Aluminum Alloy
Front glass and thickness	High transmitted, Low iron tempered Glass, 3.2mm
Junction Box	IP65 Rated
Connectors, Cable and Length	TUV1x4.0MM ² / UL12AWG; Length 900mm / 1200mm

THERMAL PERFORMANCE

Temp. coefficient of Pmax (%)	-0.46
Temp. coefficient of Voc (%)	-0.36
Temp. coefficient of Isc (%)	0.06
Nominal operating Cell Temp. (NOCT)	45 ± 2°C
Operating and Storage Temp.	-40+85

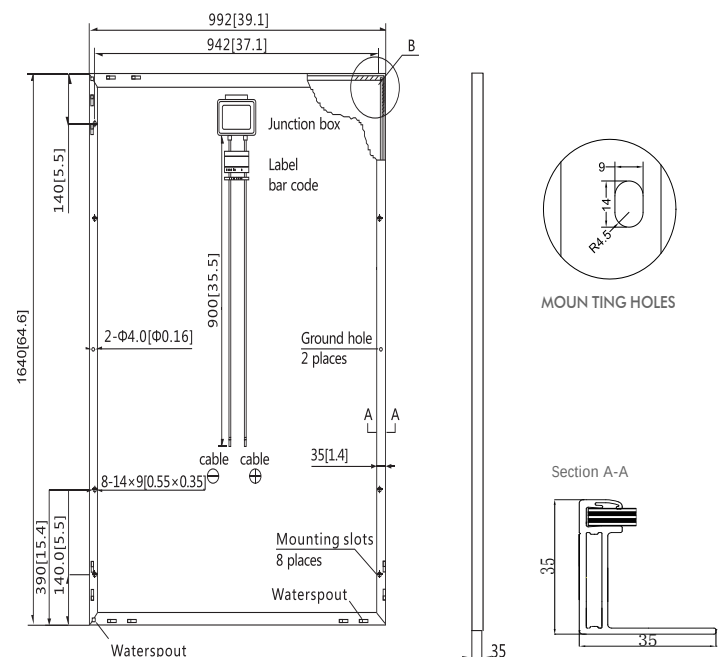
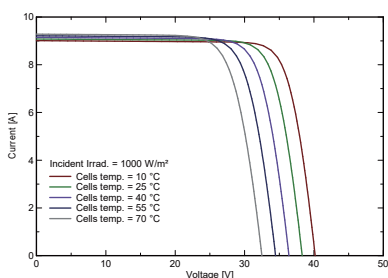
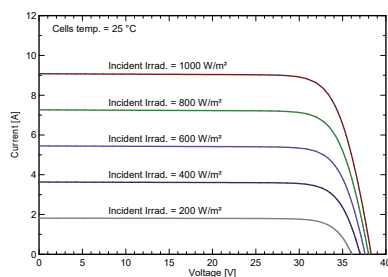
MODULE DIMENSIONS

Dimension	1640x992x35mm
Weight	18.5Kg

PACKING DATA

Container	40'HC	40'GP	20'GP
Quantity / Pallet	66		60
Quantity / Container	924		360

ELECTRICAL CURVES



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Polycrystalline Solar Photovoltaic Module

320WP 325WP 330WP 335WP

FDS280-24P330

WHY US

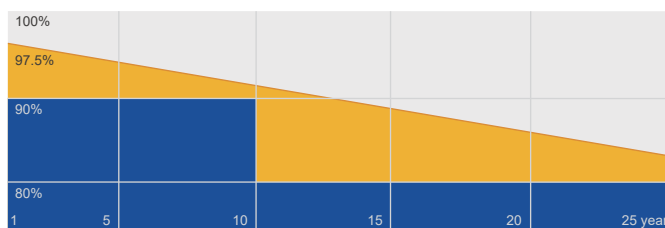
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APPLICATION

- Commercial/ industrial building roof top system
- Residential roof top system
- Solar power plants
- Off-grid system
- Other grid-tied application

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty



FS Linear Power Warranty Industry Warranty

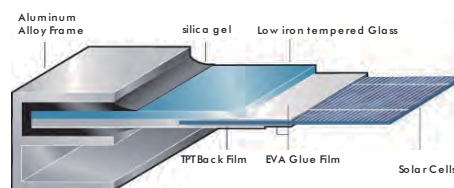
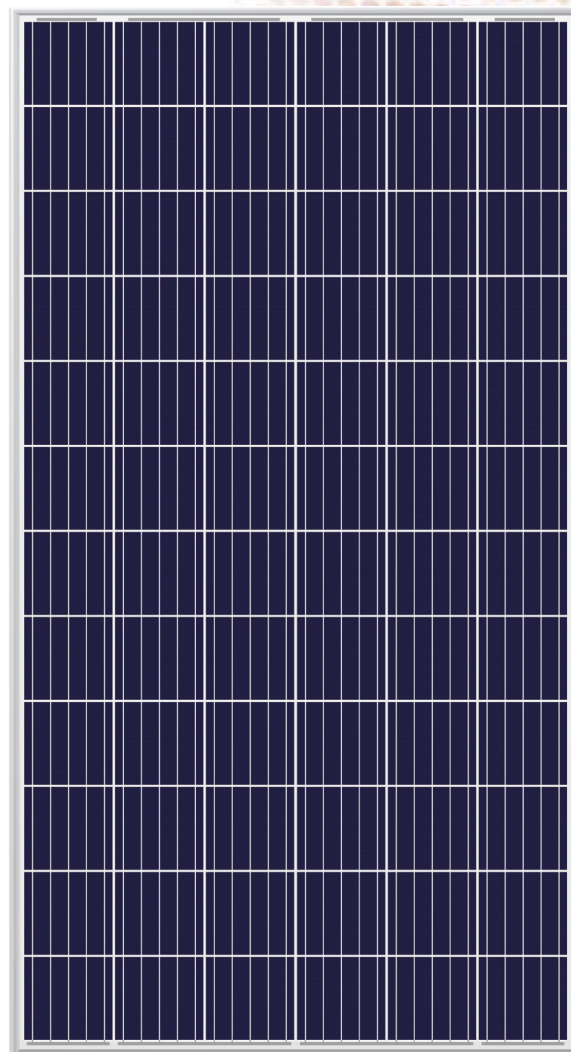


Qualified, IEC 61215

Safety tested, IEC 61730

Periodic Inspection

Power Controlled



Solar PV Module structure diagram



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ELECTRICAL DATA

Model No.		FDS280-24P335	FDS280-24P330		
Maximum Power (P _{max})		335WP	330WP		
Maximum Power Voltage (V _{mp})		37.6V	37.3V		
Maximum Power Current (I _{mp})		8.91A	8.85A		
Open Circuit Voltage (V _{oc})		46.7V	45.9V		
Short Circuit Current (I _{sc})		9.34A	9.26A		
Power Tolerance (%)	0 to +3				
Maximum System Voltage (V _{dc})	600V(UL) / 1000V(TUV)DC				
Module Efficiency		17.2%	17.0%		

STANDARD TEST CONDITIONS (STC) - AM 1.5; IRRADIATION 1000W/M²; CELL TEMP. 25 °C

CELL TECHNOLOGY AND MECHANICAL DATA

Cells Type and Size	Polycrystalline 156.75 x 156.75mm
Number and Array of Cell	72pcs / 6 x 12
Frame structure	Anodized Aluminum Alloy
Front glass and thickness	High transmitted, Low iron tempered Glass, 3.2mm
Junction Box	IP65 Rated
Connectors, Cable and Length	TUV1x4.0MM ² / UL12AWG; Length 900mm/1200mm

THERMAL PERFORMANCE

Temp. coefficient of P _{max} (%/°C)	-0.41
Temp. coefficient of V _{oc} (%/°C)	-0.31
Temp. coefficient of I _{sc} (%/°C)	0.06
Nominal operating Cell Temp. (NOCT)	45 ± 2°C
Operating and Storage Temp.	-40 + 85

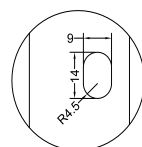
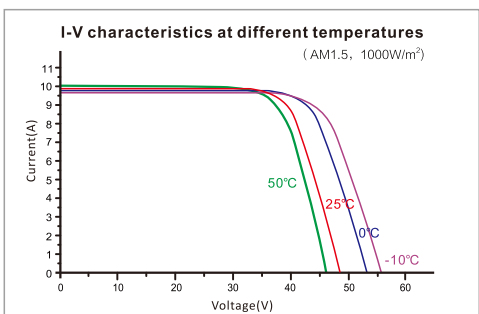
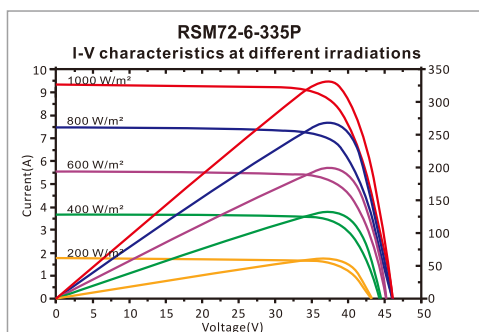
MODULE DIMENSIONS

Dimension	1956x992x40mm
Weight	22.0kg

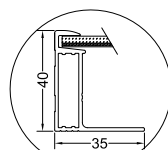
PACKING DATA

	40'HC	20'GP
Modules/Pallet	27	27
Pallets/Container		10
Modules/Container		270

ELECTRICAL CURVES

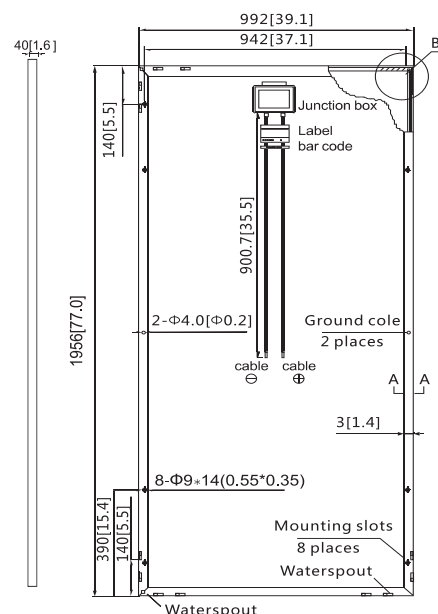


MOUNTING HOLES



SECTION A-A

Unit: mm[inch]



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