



SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.



GH 48PCS POLY SERIES 1320X992X35MM

Electrical parameters

Electrical parameters at STC (1.000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH220P48	GH210P48	GH200P48	GH190P48
Power output	[W]	220	210	200	190
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	16.8	16.0	15.3	14.5
Voltage at Pmax, Vmpp	[V]	24.6	24.4	24.2	24.0
Current at Pmax, Imp	[A]	8.94	8.61	8.27	7.92
Open circuit voltage Voc	[V]	28.5	28.3	28.1	27.8
Short circuit current Isc	[A]	9.39	9.04	8.68	8.31

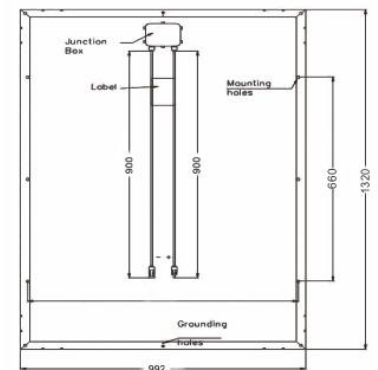


Parameters of thermal characteristics

NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmp	[1/k]	-0.0045

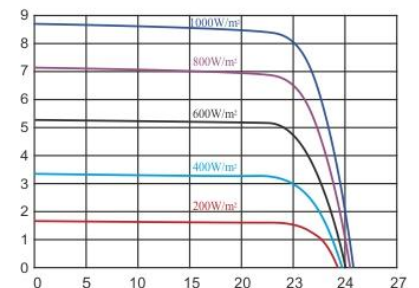
Mechanical parameters

Dimensions(mm)	1,320*992*35
Weight(kg)	15.0
Cell type(quantity/technology)	48/polycrystalline/156x156
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy



Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A





SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

GH 36PCS POLY SERIES 1480X670X35MM

Electrical parameters

Electrical parameters at STC(1,000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH160P36	GH150P36	GH140P36	GH130P36
Power output	[W]	160	150	140	130
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	16.0	15.5	15.0	14.5
Voltage at Pmax, Vmpp	[V]	18.4	18.2	18.0	17.2
Current at Pmax, Impp	[A]	8.70	8.35	7.80	7.56
Open circuit voltage Voc	[V]	22.40	21.90	21.60	21.30
Short circuit current Isc	[A]	9.13	8.85	8.67	8.50

Parameters of thermal characteristics

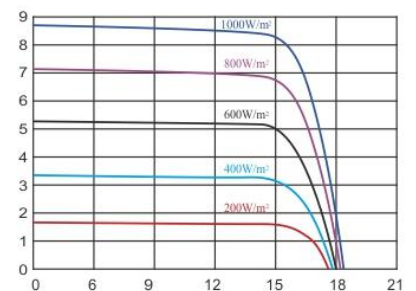
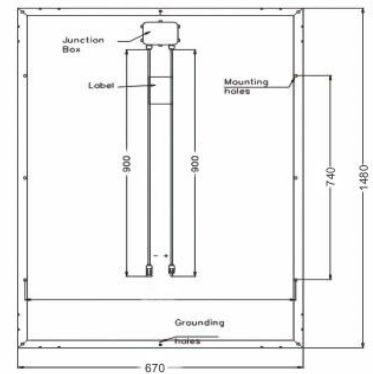
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

Mechanical parameters

Dimensions(mm)	1,480*670*35
Weight(kg)	12.5
Cell type(quantity/technology)	36/polycrystalline/156x156
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy

Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A





SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

GH 72PCS POLY SERIES 1956X992X40MM

Electrical parameters

Electrical parameters at STC(1,000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH310P72	GH300P72	GH290P72	GH280P72
Power output	[W]	310	300	290	280
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	16.5	16.0	15.1	14.8
Voltage at Pmax, Vmpp	[V]	37.50	36.80	36.50	35.28
Current at Pmax, Imp	[A]	8.26	8.15	7.95	7.90
Open circuit voltage Voc	[V]	45.36	45.00	44.75	44.65
Short circuit current Isc	[A]	8.75	8.64	8.45	8.35

Parameters of thermal characteristics

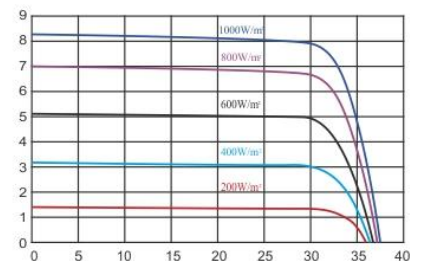
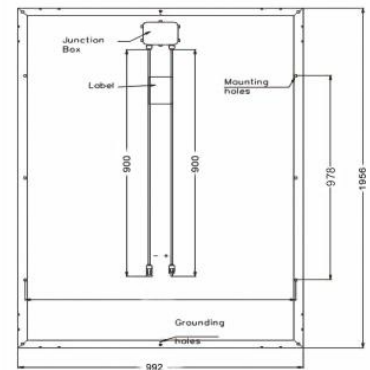
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

Mechanical parameters

Dimensions(mm)	1,956*992*40
Weight(kg)	20.0
Cell type(quantity/technology)	72/polycrystalline/156x156
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy

Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A





SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.



GH 60PCS POLY SERIES 1640X992X40MM

Electrical parameters

Electrical parameters at STC(1,000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH270P60	GH260P60	GH250P60	GH240P60
Power output	[W]	270	260	250	240
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	16.6	16.0	15.5	15.0
Voltage at Pmax, Vmpp	[V]	31.00	30.80	30.50	30.20
Current at Pmax, Imp	[A]	8.71	8.44	8.19	7.96
Open circuit voltage Voc	[V]	38.00	37.70	37.50	37.20
Short circuit current Isc	[A]	9.12	8.95	8.68	8.43

Parameters of thermal characteristics

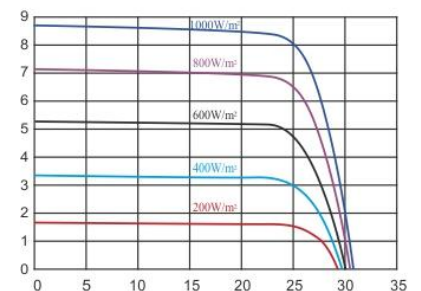
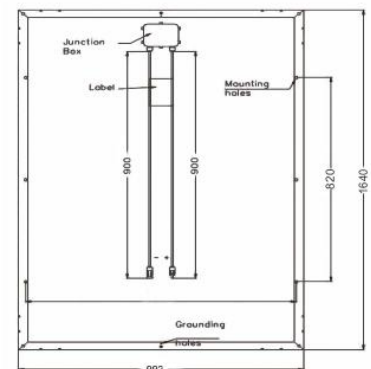
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

Mechanical parameters

Dimensions(mm)	1,640*992*40
Weight(kg)	18.0
Cell type(quantity/technology)	60/polycrystalline/156x156
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy

Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A





SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

GH 36PCS POLY SERIES 670X540X30MM

Electrical parameters

Electrical parameters at STC(1,000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH50P36	GH45P36	GH40P36
Power output	[W]	50	45	40
Power output tolerances	[%]	±3	±3	±3
Module efficiency	[%]	16.0	15.5	15.0
Voltage at Pmax, Vmpp	[V]	18.00	18.00	18.00
Current at Pmax, Impp	[A]	2.78	2.50	2.22
Open circuit voltage Voc	[V]	20.88	20.88	20.88
Short circuit current Isc	[A]	2.97	2.81	2.38

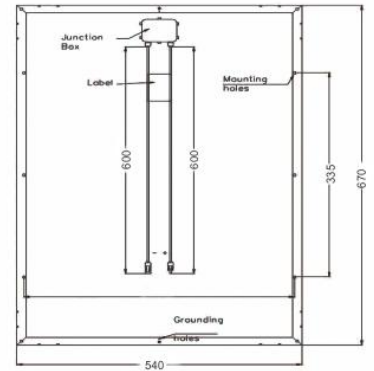


Parameters of thermal characteristics

NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

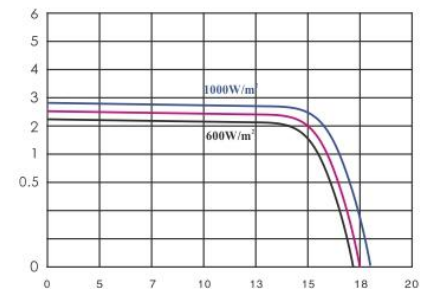
Mechanical parameters

Dimensions(mm)	670*540*30
Weight(kg)	4.5
Cell type(quantity/technology)	36/polycrystalline/156x52
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy



Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A





SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

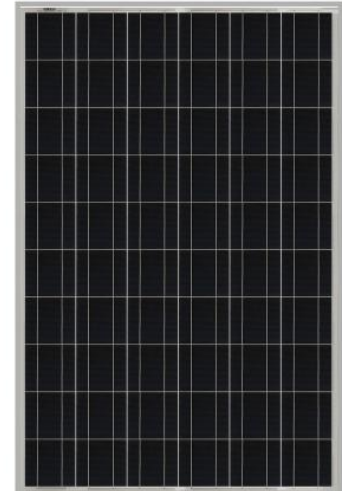


GH 36PCS POLY SERIES 1020X670X30MM

Electrical parameters

Electrical parameters at STC(1,000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH100P36	GH90P36	GH85P36
Power output	[W]	100	90	85
Power output tolerances	[%]	±3	±3	±3
Module efficiency	[%]	16.0	15.5	15.0
Voltage at Pmax, Vmpp	[V]	18.05	18.00	17.80
Current at Pmax, Impp	[A]	5.54	5.00	4.77
Open circuit voltage Voc	[V]	21.90	21.80	21.70
Short circuit current Isc	[A]	5.92	5.67	5.38

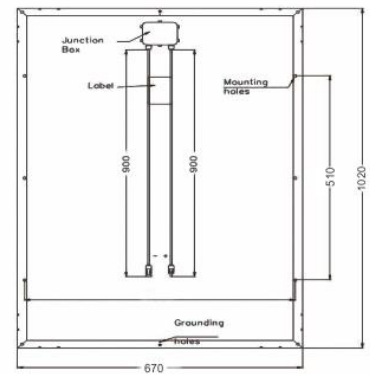


Parameters of thermal characteristics

NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

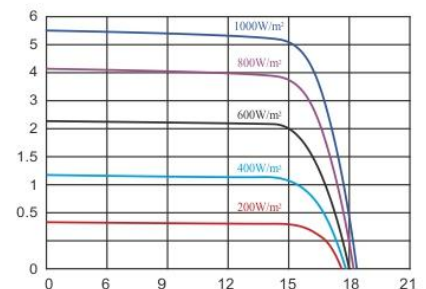
Mechanical parameters

Dimensions(mm)	1,020*670*30
Weight(kg)	11.5
Cell type(quantity/technology)	36/polycrystalline/156x104mm
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy



Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A





SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.



GH 54PCS POLY SERIES 1480X992X35MM

Electrical parameters

Electrical parameters at STC (1,000W/m²), 25°C, AM 1.5 according to EN 60904-3

Module type	[P]	GH250P54	GH240P54	GH230P54	GH220P54
Power output	[W]	250	240	230	220
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	17.0	16.5	15.7	15.0
Voltage at Pmax, Vmpp	[V]	27.6	27.3	27.1	27.0
Current at Pmax, Imp	[A]	9.06	8.79	8.49	8.15
Open circuit voltage Voc	[V]	32.1	31.7	31.4	31.30
Short circuit current Isc	[A]	9.51	9.23	8.92	8.55

Parameters of thermal characteristics

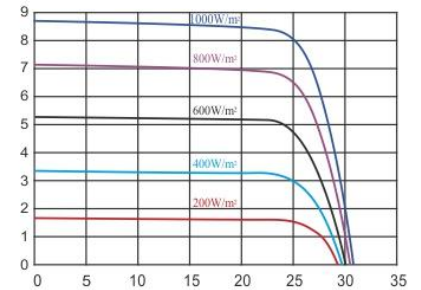
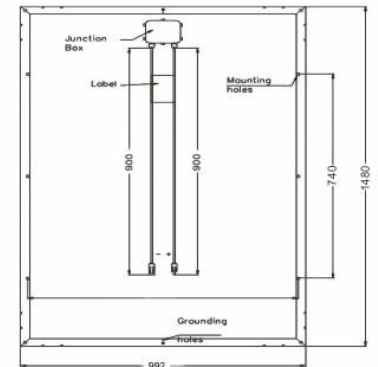
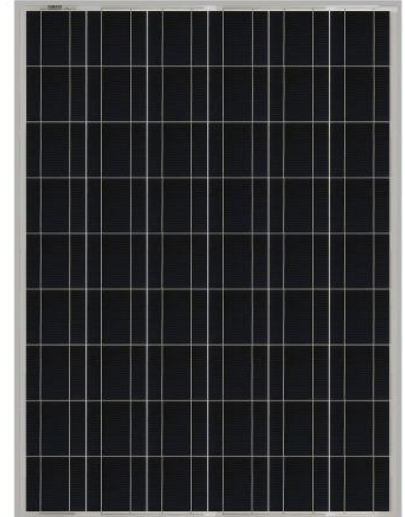
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

Mechanical parameters

Dimensions(mm)	1,480*992*35
Weight(kg)	17.5
Cell type(quantity/technology)	54/polycrystalline/156x156
Encapsulation materials	Ethylene Vinyl Acetate(EVA)
Frame	Robust anodized aluminum alloy

Working conditions

Maximum system voltage	DC 1000V(TUV)/600V(UL)
Operating temperature	-40°C~+85°C
Maximum series fuse	15A
Max. wind load/Max. snow load	2400Pa/5400Pa
Grounding conductivity	< 0.1
Insulation resistance	≥ 100M
Application class	Class A

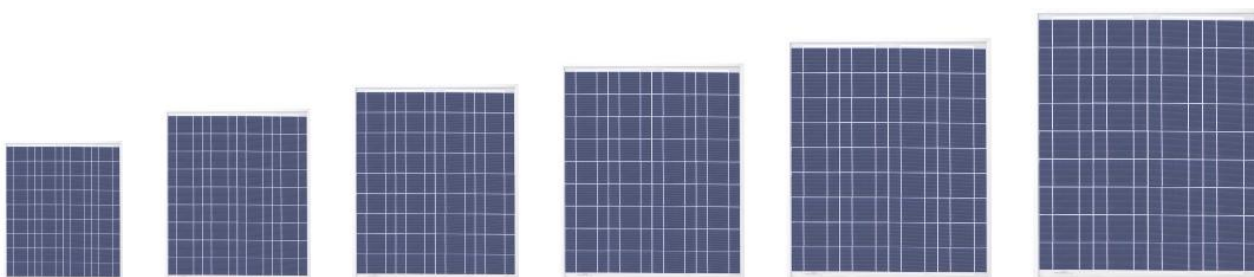


SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

GH Solar

Polycrystalline Silicon Solar Panel



Electrical Characteristics

Model	Standard power(W)	Best Working Voltage(V)	Best Working Current(A)	Open-circuit Voltage(V)	Short-circuit Current(A)	Number of Cell (Pcs)	Dimension (mm)
	Wp (Watts)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	(Pcs)	L*W*H
GH003P	3.00	9.00	0.33	10.44	0.36	18	185*185*17
GH005P	5.00	9.01	0.55	10.45	0.59	18	250*185*17
GH010P	10.00	18.00	0.56	20.88	0.59	36	350*255*17
GH015P	15.00	18.00	0.83	20.88	0.89	36	360*350*17
GH020P	20.00	18.00	1.11	20.88	1.19	36	490*360*17
GH025P	25.00	18.00	1.39	20.88	1.49	36	360*540*25
GH030P	30.00	18.00	1.67	20.88	1.78	36	525*515*25
GH030P-2	30.00	18.00	1.67	20.88	1.78	36	350*670*25
GH040P	40.00	18.00	2.22	20.88	2.38	36	420*670*30
GH050P	50.00	18.00	2.78	20.88	2.97	36	540*670*30
GH060P	60.00	18.00	3.33	20.88	3.57	36	630*670*30
GH070P	70.00	18.01	3.89	20.89	4.16	36	780*670*30
GH080P	80.00	18.02	4.44	20.90	4.75	36	906*670*30
GH090P	90.00	18.02	4.99	20.90	5.34	36	906*670*30

Time Returnable and Replaceable:5year;

Power Warranty:10year \geq 90%, 20year \geq 80%.

质保5年, 10年功率 \geq 90%, 20年功率 \geq 80%。