



SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

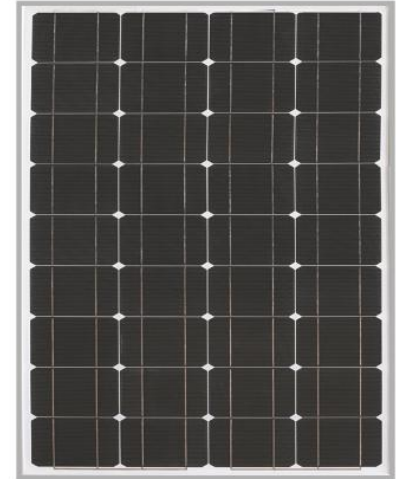


GH 36PCS MONO SERIES 670X540X30MM

Electrical parameters

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

Module type	[M]	GH55M36	GH50M36	GH45M36
Power output	[W]	55	50	45
Power output tolerances	[%]	±3	±3	±3
Module efficiency	[%]	15.0	14.5	14.0
Voltage at Pmax, Vmpp	[V]	18.0	18.0	17.8
Current at Pmax, Imp	[A]	3.05	2.78	2.53
Open circuit voltage Voc	[V]	22.60	21.72	21.50
Short circuit current Isc	[A]	3.30	3.27	2.75

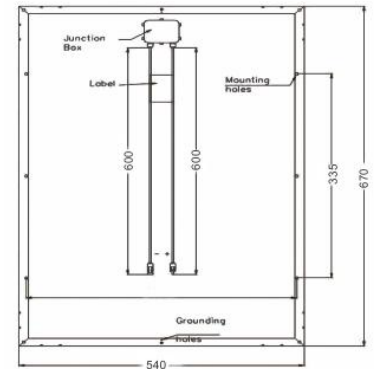


Parameters of thermal characteristics

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

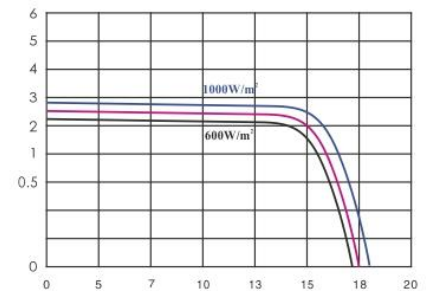
Mechanical parameters

Dimensions(mm)	670*540*30
Weight(kg)	4.5
Cell type(quantity/technology)	36/mono crystalline/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 MONO SERIES 1200X540X30MM

Electrical parameters

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

Module type	[M]	GH100M36	GH90M36	GH85M36	GH80M36
Power output	[W]	100	90	85	80
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	14.5	14.0	13.5	13.0
Voltage at Pmax, Vmpp	[V]	18.0	18.0	17.2	17.2
Current at Pmax, Imp	[A]	5.55	5.10	5.00	4.80
Open circuit voltage Voc	[V]	21.40	20.90	20.00	19.80
Short circuit current Isc	[A]	5.81	5.45	5.35	5.25

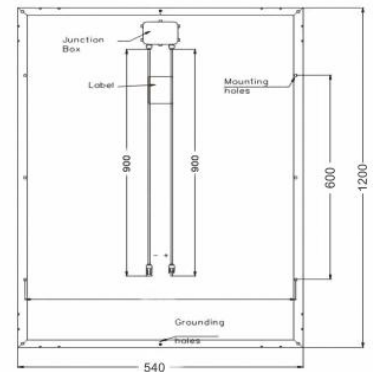


Parameters of thermal characteristics

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

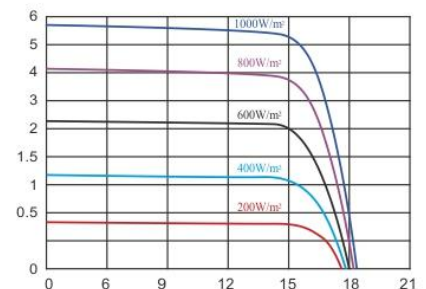
Mechanical parameters

Dimensions(mm)	1,200*540*30
Weight(kg)	7.5
Cell type(quantity/technology)	36/mono crystalline/125x125
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

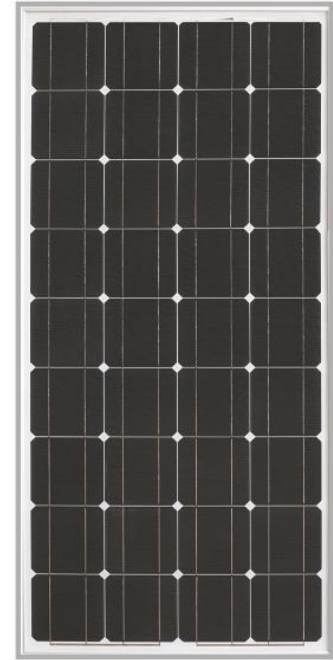
Zhejiang Ganghang Solar Technology Co.,Ltd.

GH 36PCS MONO SERIES 1480X680X35MM

Electrical parameters

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

Module type	[M]	GH160M36	GH150M36	GH140M36	GH130M36
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]	18.2	18.0	18.0	17.2
Current at Pmax, Impp	[A]	8.79	8.35	7.80	7.56
Open circuit voltage Voc	[V]	22.60	22.40	22.30	22.20
Short circuit current Isc	[A]	9.23	8.85	8.67	8.50

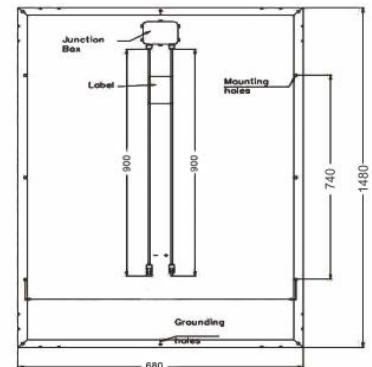


Parameters of thermal characteristics

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

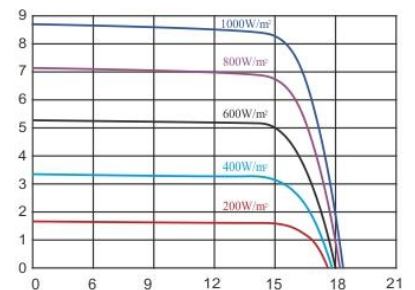
Mechanical parameters

Dimensions(mm)	1,480*680*35
Weight(kg)	12.0
Cell type(quantity/technology)	36/monocrystalline/156x156
Encapsulation materials	Ethylene VinylAcetate(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 48PCS MONO SERIES 1320X992X35MM

Electrical parameters

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

Module type	[P]	GH220M48	GH210M48	GH200M48	GH190M48
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, Impp	[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

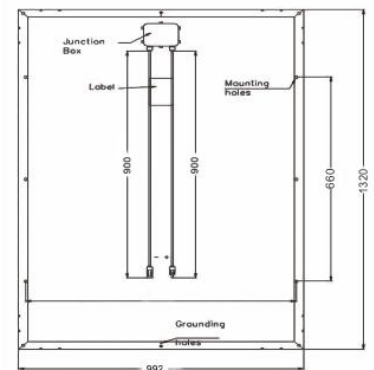


Parameters of thermal characteristics

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 Pmpp	[1/k]	-0.0045

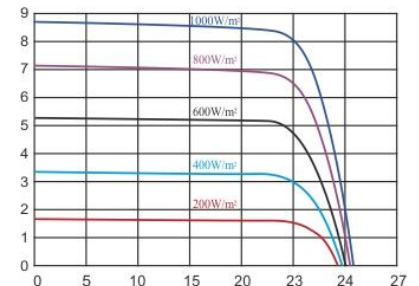
Mechanical parameters

Dimensions(mm)	1,320*992*35
Weight(kg)	15.0
Cell type(quantity/technology)	48/mono crystalline/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 54PCS MONO SERIES 1480X992X35MM

Electrical parameters

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

Module type	[M]	GH250M54	GH240M54	GH230M54	GH220M54
Power output	[W]	250	240	230	220
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	17.0	16.5	15.7	15.5
Voltage at Pmax, Vmpp	[V]	28.0	27.7	27.6	27.5
Current at Pmax, Imp	[A]	8.92	8.67	8.34	8.01
Open circuit voltage Voc	[V]	33.81	33.51	33.34	33.34
Short circuit current Isc	[A]	9.45	9.11	8.71	8.33

Parameters of thermal characteristics

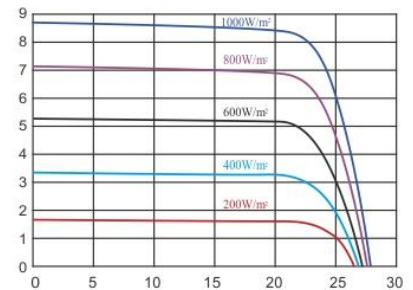
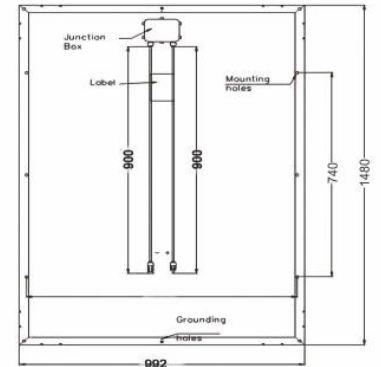
NOCT(Nominal Operating Cell Temperatures)	[°C]	46±2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

Mechanical parameters

Dimensions(mm)	1,480*992*35
Weight(kg)	16.0
Cell type(quantity/technology)	54/mono crystalline/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 MONO SERIES 1650X992X40MM

Electrical parameters

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

Module type	[M]	GH275M60	GH260M60	GH250M60	GH240M60
Power output	[W]	275	260	250	240
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	16.9	15.9	15.4	14.8
Voltage at Pmax, Vmpp	[V]	30.5	30.0	29.5	29.5
Current at Pmax, Imp	[A]	9.01	8.66	8.47	8.13
Open circuit voltage Voc	[V]	37.21	37.10	36.50	36.20
Short circuit current Isc	[A]	9.56	9.01	8.92	8.77

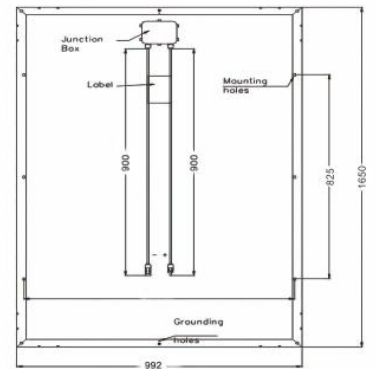


Parameters of thermal characteristics

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

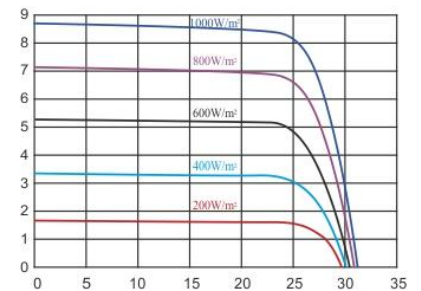
Mechanical parameters

Dimensions(mm)	1,650*992*40
Weight(kg)	18.5
Cell type(quantity/technology)	60/mono crystalline/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 MONO SERIES 1956X992X40MM

Electrical parameters

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

Module type	[M]	GH330M72	GH320M72	GH300M72	GH280M72
Power output	[W]	330	320	300	280
Power output tolerances	[%]	±3	±3	±3	±3
Module efficiency	[%]	17.0	16.5	15.5	14.5
Voltage at Pmax, Vmpp	[V]	37.7	37.5	37.4	37.0
Current at Pmax, Impp	[A]	8.76	8.54	8.02	7.62
Open circuit voltage Voc	[V]	46.05	45.81	44.81	44.41
Short circuit current Isc	[A]	9.29	9.06	8.86	8.26

Parameters of thermal characteristics

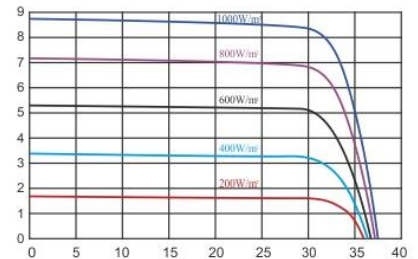
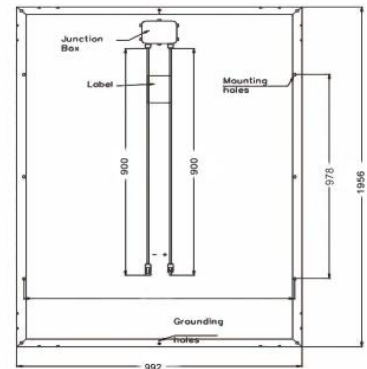
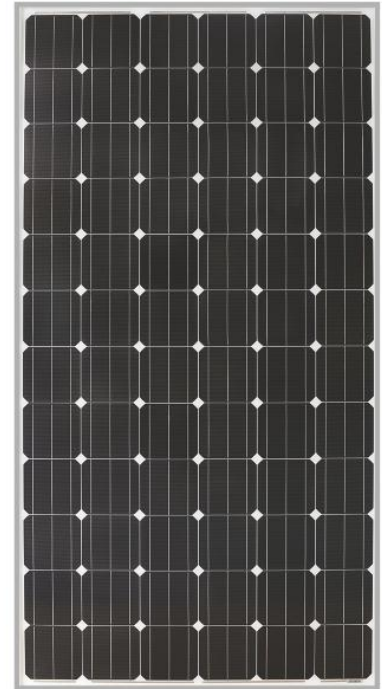
NOCT(Nominal Operating Cell Temperatures)	[°C]	46±2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

Mechanical parameters

Dimensions(mm)	1,956*992*40
Weight(kg)	21.5
Cell type(quantity/technology)	72/mono crystalline/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





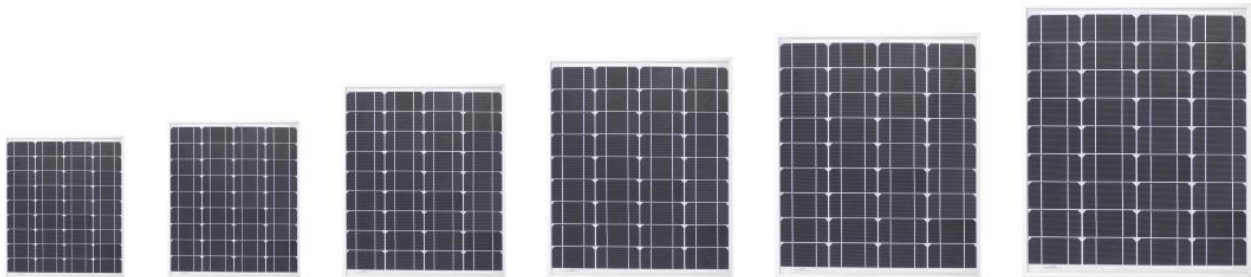
SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

GH Solar



Monocrystalline 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
GH003M	3.00	9.00	0.33	10.44	0.36	18	185*185*17
GH005M	5.00	9.01	0.55	10.45	0.59	18	250*185*17
GH010M	10.00	17.92	0.56	20.79	0.60	36	255*350*17
GH015M	15.00	18.00	0.83	20.88	0.89	36	360*350*17
GH020M	20.00	18.01	1.11	21.42	1.31	36	360*450*25
GH025M	25.00	18.00	1.39	21.80	1.63	36	360*490*25
GH030M	30.00	17.95	1.67	21.72	1.97	36	545*514*25
GH040M	40.00	17.95	2.23	21.65	2.62	36	420*670*30
GH050M	50.00	18.00	2.78	21.72	3.27	36	540*670*30
GH060M	60.00	18.10	3.31	21.68	3.90	36	630*670*30
GH070M	70.00	18.00	3.89	21.24	4.20	36	780*670*30
GH080M	80.00	18.00	4.44	21.24	5.23	36	780*670*30
GH090M	90.00	18.15	4.96	21.42	5.83	36	906*670*30
GH090M-2	90.00	18.15	4.96	21.42	5.83	36	1200*540*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%。