



SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

Zhejiang Ganghang Solar Technology Co.,Ltd.

Add: Building 2, West Xintiandi Business Center, Hangzhou, Zhejiang, China.
Tel: +86-571-88138377 88135965 88135107 **Fax:** +86-571-85273827
Website: www.zjghenergy.com

Pakistan Office:

Add: #606, 6th floor park towers F10/3 Islamabad
Contact: 051-2223058 **Email:** ghsolar-musa@gmail.com
Cell: 03100555998(English) / 03111878888(Urdu)

UAE Office:

Add: S13 shop, union square BLD. land 68 DM:119-176.AL rigga dubai.
Contact: 00971 42 951056 **Email:** ghsolar-brain@gmail.com
Cell: 00971 525408763 / 00971 528720623 / 00971 523260189

Indonesia Office:

Add: jl. Muara baru pergudangan nilakandi no. 15b, pluit jakarta utara
Contact: 021-29379245 **Cell:** 0812 9817 0068 / 0812 9888 7787 / 0812 9888 7707
Email: Ghsolar.kalieng@gmail.com Ghsolar.james@gmail.com ghsolar2016@gmail.com

Saudi Arabia Office:

Add: Exit 16 East Ring Road, Safa District, Riyadh, K.S.A
Cell: 00966 536263589 / 00966 500886076
Email: ghsolar964@gmail.com

Australia Office:

Add: 635 Waverley Road Glen waverley 3150 Vic Australia
Contact: 03 95600321 **Cell:** 0499 099958 / 0499 096789
Email: chris@ghsolar.com.au michelle@ghsolar.com.au



www.zjghenergy.com



企业简介

浙江岗航能源科技有限公司是一家专业从事太阳能组件和周边产品的研发、生产、销售和服 务的高新技术企业。产品通过欧盟CE和北德、南德双TUV认证。企业还通过ISO9001等质量管 理体系认证。全国拥有四家生产工厂，太阳能组件的生产能力超过100MW。

公司以贴近市场，方便客户的理念，成立了阿联酋、沙特、巴基斯坦、印尼、澳大利亚等海 外销售处，海外销售处全部实行仓储式销售，产品直达用户。并继续开拓欧盟和美国市场，公司 一直奉行高性价比产品及品牌战略，在各个海外销售处注册了GH SOLAR商标，更好的服务和方 便当地客户。

我们不断创新、进取，本着贴近市场的原则，布局全球，为绿色环保的太阳能行业发展出一 份力，续写GH SOLAR光伏发展新篇章。

ENTERPRISE PROFILE

Zhejiang Ganghang Solar Technology Co., Ltd. is a leading high-tech enterprise specially engaged in production, R&D, sales and service for solar PV module. Our products are approved by CE and TUV issued by both TUV NORD and TUV SUD while the company has managed to through ISO9001 quality management system. With 4 plants nationwide, the production capacity reaches more than 100MW per year.

Based on the target of closeness to the market and facilitating our clients, we have established overseas sales offices and warehouses in UAE, Saudi Arabia, Indonesia, Pakistan and Australia. Now the high-end market of EU and North America is our new objective. In order to establish our own brand and improve our service, we have registered 'GH SOLAR' trademark in the countries of our sales offices, and selling high quality solar panel with good price there.

With the philosophy of 'Customer satisfaction', 'Globalization' and 'Brand', GH SOLAR will devote to the green energy industry by continuous innovation and enterprising.



TUV SUD



TUV SUD



CE



TUV NORD



TUV NORD



ISO9001:2008





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

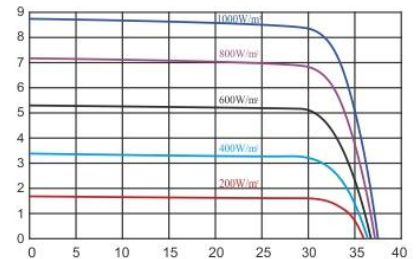
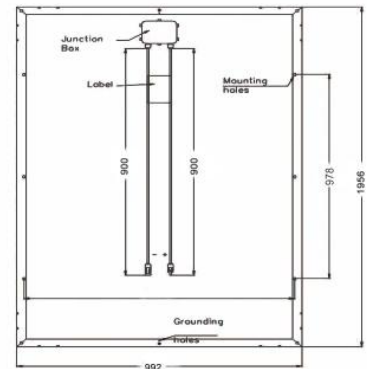
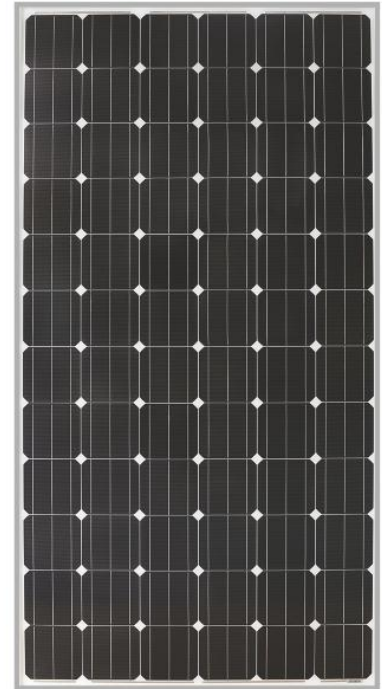
NOCT(Nominal Operating Cell Temperatures)	[°C]	46±2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

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 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

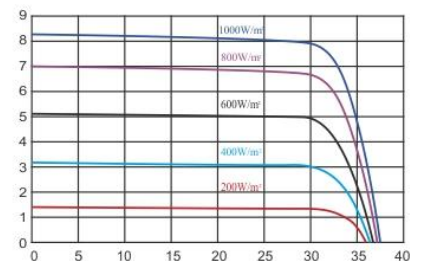
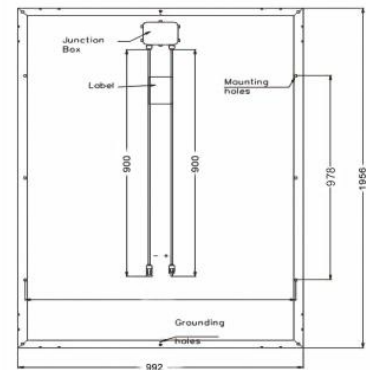
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

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 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, Impp	[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

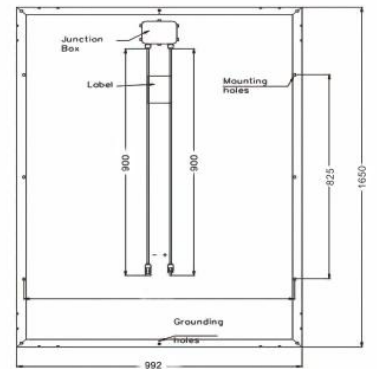


Parameters of thermal characteristics

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

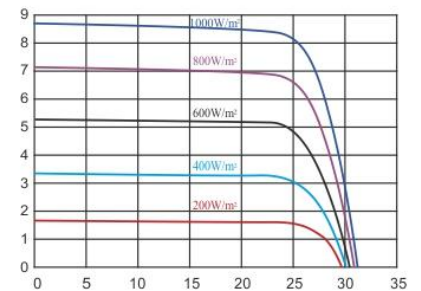
Mechanical parameters

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 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

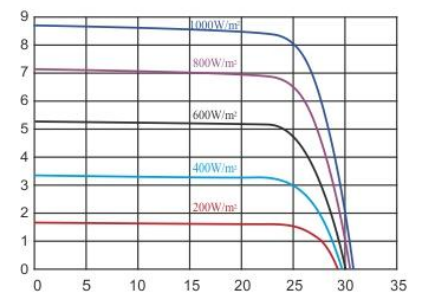
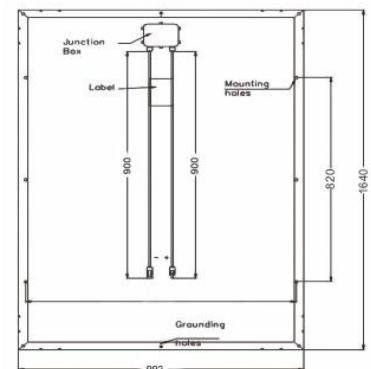
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

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 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

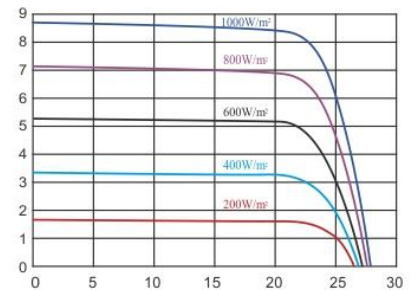
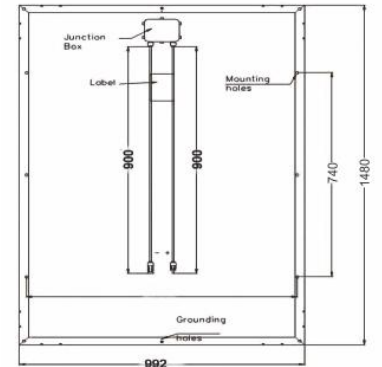
NOCT(Nominal Operating Cell Temperatures)	[°C]	46±2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

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.

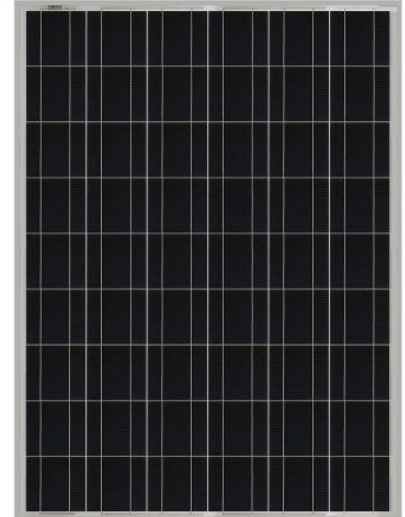


GH 54PCS POLY SERIES 1480X992X35MM

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

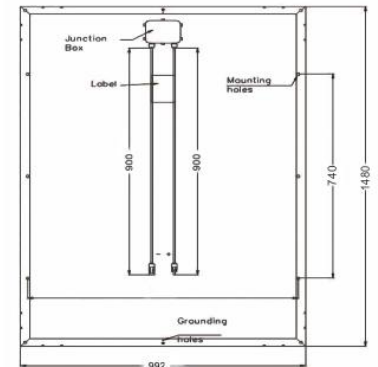


Parameters of thermal characteristics

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

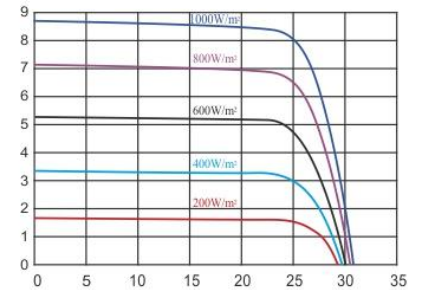
Mechanical parameters

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 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

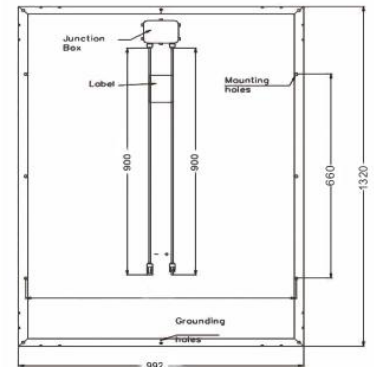


Parameters of thermal characteristics

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

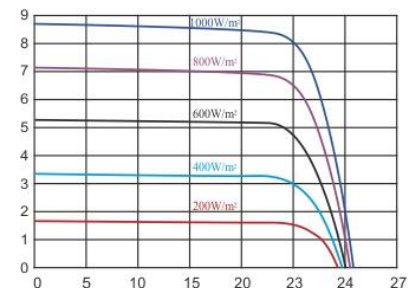
Mechanical parameters

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

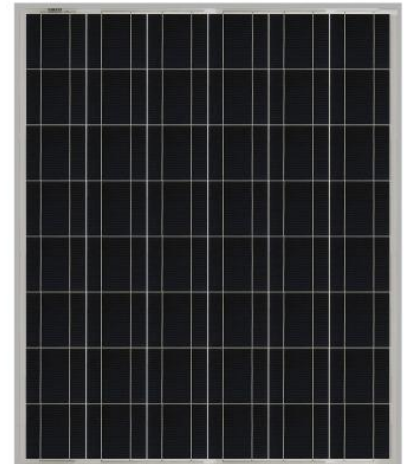
Zhejiang Ganghang Solar Technology Co.,Ltd.

GH 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

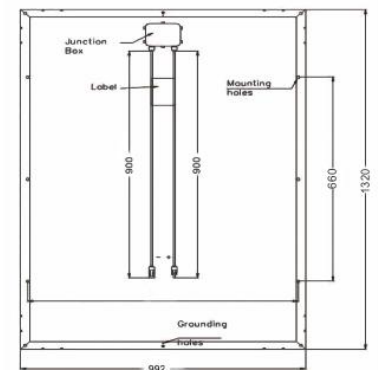


Parameters of thermal characteristics

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

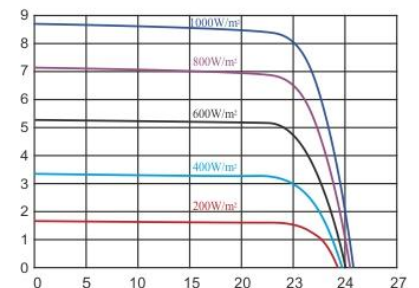
Mechanical parameters

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.

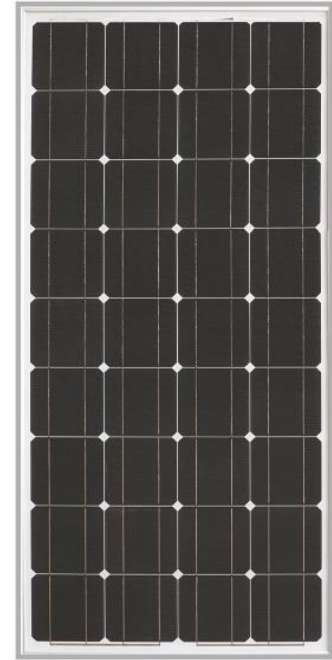


GH 36PCS MONO SERIES 1480X680X35MM

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, Imp	[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

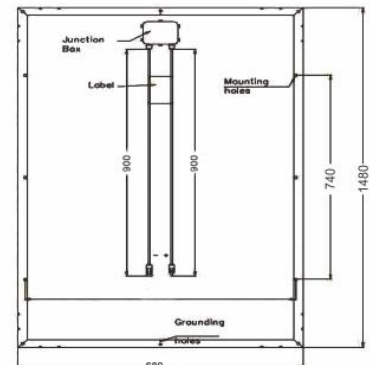


Parameters of thermal characteristics

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

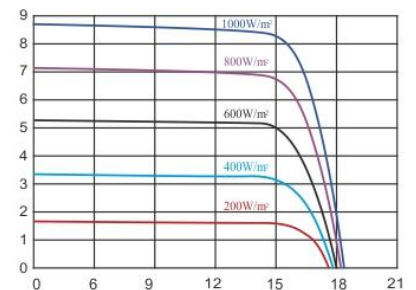
Mechanical parameters

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 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

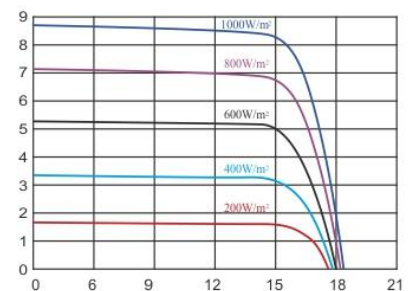
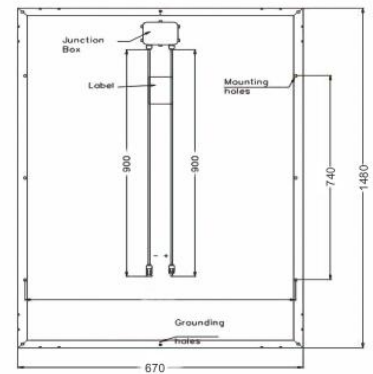
NOCT(Nominal Operating Cell Temperatures)	[°C]	46 ± 2
Temperature coefficient beta of Isc	[1/k]	+0.0006
Temperature coefficient alpha of Voc	[1/k]	-0.0037
Temperature coefficient gamma of Pmpp	[1/k]	-0.0045

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 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

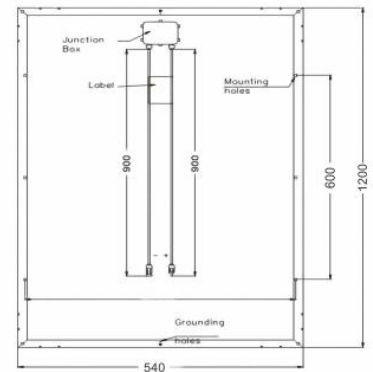


Parameters of thermal characteristics

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

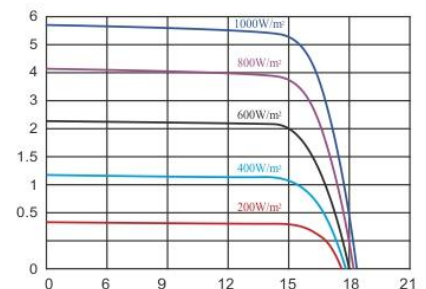
Mechanical parameters

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.

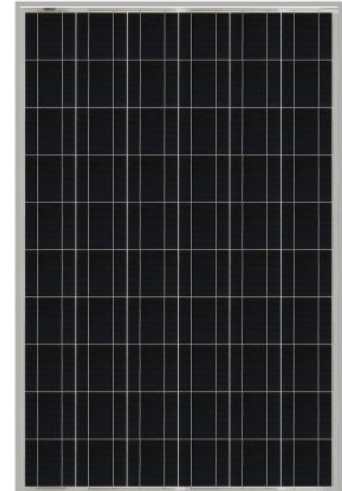


GH 36PCS POLY SERIES 1020X670X30MM

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

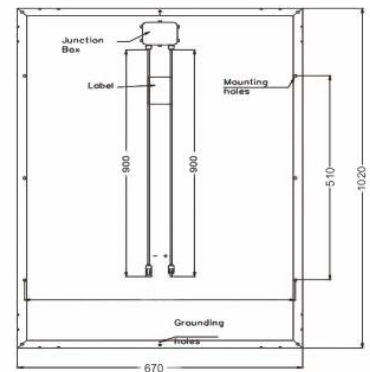


Parameters of thermal characteristics

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

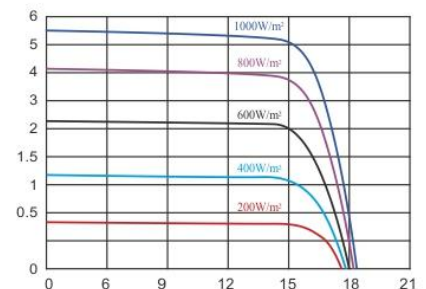
Mechanical parameters

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.

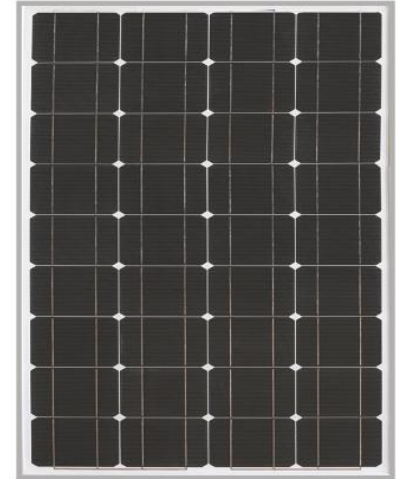


GH 36PCS MONO SERIES 670X540X30MM

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

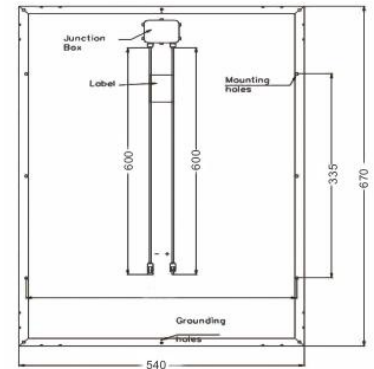


Parameters of thermal characteristics

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

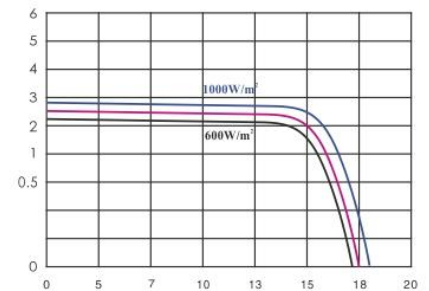
Mechanical parameters

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 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

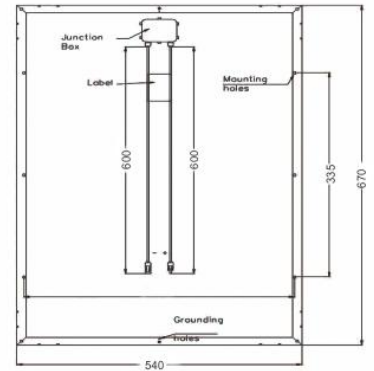


Parameters of thermal characteristics

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

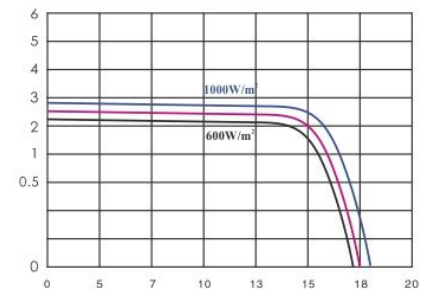
Mechanical parameters

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





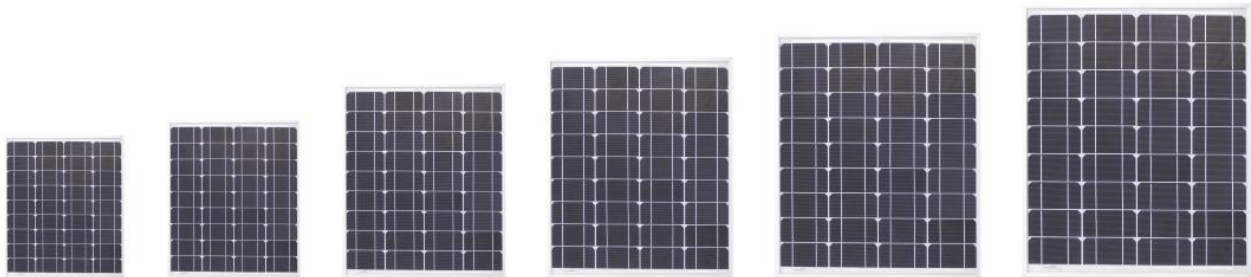
SOLAR ENERGY PRODUCT

Zhejiang Ganghang Solar Technology Co.,Ltd.

GH 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%.

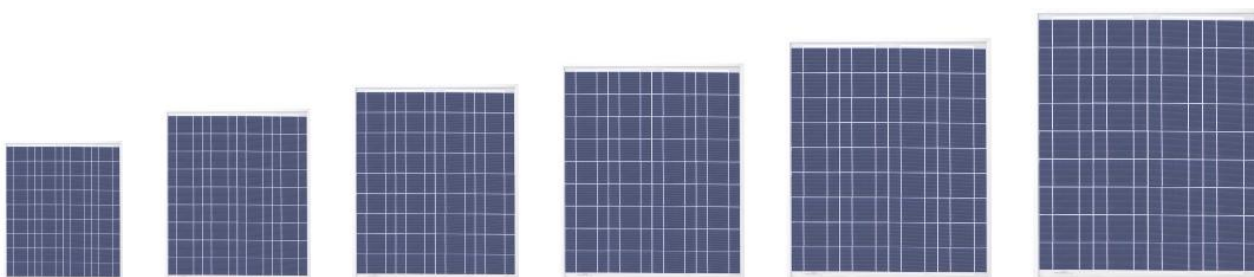
质保5年, 10年功率 \geq 90%, 20年功率 \geq 80%。

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%。