





## M12 Monocrystalline Series 10W-360W


### Products Characteristics


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Widely using of the most popular and mature type of modules for off-grid system.
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Outstanding performance in low-light irradiance environments.
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Leading manufacturing technology in PV industry, strictly controlling the quality of raw materials and the process of producing.
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Excellent mechanical load resistance: Certified to withstand high wind loads(2400pa) and snow loads(5400pa).
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100% EL inspection, ensures modules are defects free.
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High salt and ammonia resistance.
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Cells binned by current to improve module performance.
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Positive power tolerance: 0~+5w.
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Anti reflective glass. Not only to increase the light absorption, but also to make the module has the function of self-cleaning in water environment, effectively reducing the power loss caused by dust.

### Warranty



5 year product warranty.



10-years 90% of Min. rated output power, and 25-years 80% of Min. rated output power warranty.

### Comprehensive Certificates

- ◆ ISO Certificate
- ◆ SGS-TUV Certificate
- ◆ CQC Certificate
- ◆ IEC61215、IEC61730 Certificate
- ◆ CE Certificate



\*Specifications subject to technology and test conditions,GSUN Power reserves the right of final interpretation.

	Model No.	Pmax (W)	Dimension(mm)	Weight (kg)	Power Tolerance	Operating Temperature	Junction-Box	Application Grade	Packing	Cell Efficiency	Voc (V)	Vmp (V)	Isc (A)	Imp (A)	Cell Size (mm)
	M12-28-10	10W	270x310x17x17	0.8	0+5W	-45~+80 C	IP65/IP67	ClassA	30pieces/box	21.9%	19.6	16.0	0.67	0.63	70x30
	M12-36-20	20W	380x310x17x17	1.3	0+5W	-45~+80 C	IP65/IP67	ClassA	20pieces/box	22.6%	21.9	17.9	1.19	1.12	70x35
	M12-36-30	30W	380x450x17x17	2.0	0+5W	-45~+80 C	IP65/IP67	ClassA	10pieces/box	22.6%	24.3	19.9	1.60	1.51	105x35
	M12-32-40	40W	490x450x25x25	2.4	0+5W	-45~+80 C	IP65/IP67	ClassA	10pieces/box	22.6%	21.9	17.9	2.37	2.24	105x52.5
	M12-32-50	50W	620x450x25x25	3.1	0+5W	-45~+80 C	IP65/IP67	ClassA	6pieces/box	21.9%	21.9	17.9	2.97	2.80	105x70
	M12-36-60	60W	690x450x25x25	3.4	0+5W	-45~+80 C	IP65/IP67	ClassA	6pieces/box	22.6%	24.3	19.9	3.20	3.02	
	M12-32-80	80W	900x450x25x25	4.5	0+5W	-45~+80 C	IP65/IP67	ClassA	5pieces/box	22.6%	21.9	17.9	4.74	4.47	105x105
	M12-36-90	90W	1010x450x25x25	5.0	0+5W	-45~+80 C	IP65/IP67	ClassA	5pieces/box	22.6%	24.3	19.9	4.80	4.53	
	M12-60-150	150W	1120x670x28x25	8.3	0+5W	-45~+80 C	IP65/IP67	ClassA	38pieces/Pallet	22.6%	40.8	33.4	4.77	4.50	
	M12-66-165	165W	1225x670x28x25	9.1	0+5W	-45~+80 C	IP65/IP67	ClassA	38pieces/Pallet	22.7%	44.5	36.4	4.80	4.53	105x105
	M12-66-170	170W								23.4%	44.8	36.6	4.92	4.64	
	M12-66-180	180W								24.1%	45.4	37.1	5.14	4.86	
	M12-72-175	175W	1330x670x28x25	9.9	0+5W	-45~+80 C	IP65/IP67	ClassA	38pieces/Pallet	22.0%	48.6	39.7	4.67	4.41	105x105
	M12-72-180	180W								22.6%	48.8	39.9	4.78	4.51	
	M12-72-185	185W								23.3%	49.0	40.1	4.90	4.62	
	M12-72-190	190W								23.9%	49.3	40.3	5.00	4.72	
	M12-72-200	200W								24.5%	49.5	40.5	5.23	4.94	
	M12-144-360	360W	1956x885x28x25	19.2	0+5W	-45~+80 C	IP65/IP67	ClassA	36pieces/Pallet	22.8%	49.4	42.0	9.03	8.57	105x70

Glass	3.2mm Tempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized aluminium alloy
Cable	NA, but customized is acceptable
Connector	NA, but MC4 and MC4 Compatible are acceptable
Maximum System Voltage	700V
Maximum Series Fuse	10A
Temperature Coefficient of Isc	+0.06%
Temperature Coefficient of Voc	-0.32%
Temperature Coefficient of Pmp	-0.45%
Standard Test Condition	Irradiance:1000W/M <sup>2</sup> , Cell Temperature:25 C., Spectrum AM:1.5

## Engineering Drawings (Back Side)

