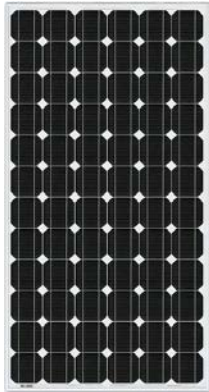


BlueSolar Monocrystalline Panels

www.victronenergy.com



- Low voltage-temperature coefficient enhances high-temperature operation.
- Exceptional low-light performance and high sensitivity to light across the entire solar spectrum.
- 25-year limited warranty on power output and performance.
- 5-year Limited warranty on materials and workmanship.
- Sealed, waterproof, multi-functional junction box gives high level of safety.
- High performance bypass diodes minimize the power drop caused by shade.
- Advanced EVA (Ethylene Vinyl Acetate) encapsulation system with triple-layer back sheet meets the most stringent safety requirements for high-voltage operation.
- A sturdy, anodized aluminum frame allows modules to be easily roof-mounted with a variety of standard mounting systems.
- Highest quality, high-transmission tempered glass provides enhanced stiffness and impact resistance.
- Pre wired quick-connect system with MC4 (PV-ST01) connectors. (Except for the 30W panel)



MC4 connectors

BlueSolar Monocrystalline 280W

Type	Module Size	Glass size	Weight	Electrical data under STC ⁽¹⁾				
				Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-circuit Current
				P _{MPP}	V _{MPP}	I _{MPP}	V _{oc}	I _{sc}
Module	mm	mm	Kg	W	V	A	V	A
SPM30-12	450 x 545 x 25	445 x 535	2.5	30	18	1.67	22.5	2
SPM51-12	645 x 540 x 35	640 x 535	5.2	50	18	2.78	22.2	3.16
SPM81-12	1005 x 540 x 35	1000 x 535	7	80	18	4.45	22.3	4.96
SPM101-12	1210 x 540 x 35	1205 x 535	8	100	18	5.56	22.4	6.53
SPM131-12	1110 x 808 x 35	1105 x 802	11.5	130	18	7.23	22.4	8.49
SPM190-24	1580 x 808 x 35	1574 x 802	14.5	190	36	5.44	43.2	5.98
SPM300-24	1956 x 992 x 50	1950 x 986	23.5	300	36	8.06	45.5	8.56
Module	SPM30-12	SPM51-12	SPM81-12	SPM101-12	SPM131-12	SPM190-24	SPM300-24	
Nominal Power (±3% tolerance)	30W	50W	80W	100W	130W	190W	300W	
Cell type	Monocrystalline							
Number of cells in series	36				72			
Maximum system voltage (V)	1000V							
Temperature coefficient of P _{MPP} (%)	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C
Temperature coefficient of V _{oc} (%)	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C
Temperature coefficient of I _{sc} (%)	+0.037/°C	+0.037/°C	+0.037/°C	+0.037/°C	+0.05/°C	+0.037/°C	+0.037/°C	+0.037/°C
Temperature Range	-40°C to +85°C							
Surface Maximum Load Capacity	200kg/m ²							
Allowable Hail Load	23m/s, 7.53g							
Junction Box Type	PV-JH03-2	PV-JH02	PV-JH02	PV-JH02	PV-RH0301	PV-JH03	PV-JH200	
Connector Type	MC4							
Length of Cables	450mm	750mm	900mm	900mm	900mm	900mm	1000mm	
Output tolerance	+/-3%							
Frame	Aluminium							
Product warranty	2 years							
Warranty on electrical performance	10 years 90% + 25 years 80% of power output							
Smallest packaging unit	1 panel							
Quantity per pallet	40 panels	40 panels	20 panels	20 panels	20 panels	20 panels	20 panels	20 panels

1) STC (Standard Test Conditions): 1000W/m², 25°C, AM (Air Mass) 1.5