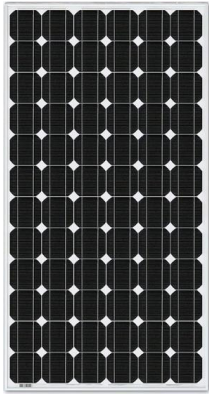


BlueSolar Monocrystalline Panels

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.
- 2-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 540 x 25	445 x 535	2.5	30	18	1.67	22.5	2
SPM50-12	760 x 540 x 35	755 x 535	5.5	50	18	2.78	22.2	3.16
SPM80-12	1110 x 540 x 35	1105 x 535	8.2	80	18	4.58	22.25	4.98
SPM100-12	963 x 805 x 35	958 x 800	10.5	100	18	5.56	22.4	6.53
SPM130-12	1220 x 808 x 35	1214 x 802	13	130	18	7.23	21.6	7.94
SPM180-24	1580 x 808 x 35	1574 x 802	14.5	180	36	5.01	44.9	5.50
SPM280-24	1956 x 992 x 50	1950 x 986	20	280	36	7.89	44.25	8.76
Module	SPM30-12	SPM50-12	SPM80-12	SPM100-12	SPM130-12	SPM180-24	SPM280-24	
Nominal Power (±3% tolerance)	30W	50W	80W	100W	130W	180W	280W	
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 +80°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	No connector	MC4	MC4	MC4	MC4	MC4	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	

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