

## MONOCRYSTALINES

Victron Energy Monocrystalline Solar PV modules.



Panel Solar Victron Energy Monocrystalino



Panel Solar Monocrystalino Victron Energy

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 PV-ST01 connectors.

## SPECIFICATIONS

	SPM20-12	SPM30-12	SPM40-12	SPM55-12	SPM90-12	SPM115-12	SPM175-12	SPM214-24	SPM305-20	SPM360-24
Cells number				36				72	60	72
Cell type	Monocrystalline									
Maximum system voltage	1000 V									

### Electrical specifications \*

Rated power	Pmax	20 Wp	30 Wp	40 Wp	55 Wp	90 Wp	115 Wp	175 Wp	215 Wp	305 Wp	360 Wp
Power		± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%

output tolerance											
Maximum power voltage	Vmpp	18,5 V	18,7 V	18,3 V	18,8 V	19,6 V	19,0 V	19,4 V	37,4 V	32,5 V	38,4 V
Open circuit voltage	Voc	22,6 V	22,87 V	22,45 V	22,9 V	24,06 V	23,32 V	23,7 V	45,82 V	39,7 V	47,4 V
Maximum power current	Impp	1,09 A	1,61 A	2,19 A	2,94 A	4,59 A	6,04 A	9,03 A	5,75 A	9,38 A	9,38 A
Short circuit current	Isc	1,19 A	1,76 A	2,40 A	3,22 A	5,03 A	6,61 A	9,89 A	6,30 A	10,27 A	10,24 A

### Temperature ratings

Open circuit voltage coefficient	Tk Voc	-0,35 % / °C
Short circuit current coefficient	Tk Isc	0,04 % / °C
Power coefficient	Tk P	-0,45 % / °C
Operational temperature		-40 to +85 °C

### Other specifications

Dimensions	440x350x25	560x350x25	425x668x25	545x668x25	780x668x30	1015x668x30	1485x668x30	1580x808x35	1640x992x35	1956x992x40
Weight	1,9 Kg	2,2 Kg	3,1 Kg	4 Kg	6,1 Kg	8 Kg	11 Kg	15 Kg	18 Kg	22 Kg
Connection box	Connection box with by-pass diodes									
Cable	No Cable	No Cable	No Cable	No Cable	900 mm	900 mm	900 mm	900 mm	900 mm	900 mm
Connector	-		-		MC4	MC4	MC4	MC4	MC4	MC4
Warranty	Product: 2 years against manufacturing defects. Production: 90% during 10 years, 80% during 25 years.									

\* Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

## DOWNLOADS

### CATÁLOGO GENERAL BORNAY 14-15

 [Catalogo-Bornay-1415.pdf](#) (10.41 MiB)  
Size: 10.41 MiB