

Our ranges of Photovoltaic (PV) Solar Panels are manufactured to the highest quality, using a rigid aluminium frame and a glass front. The rigid PV solar panels are available in Polycrystalline & Monocrystalline options and with the Output Power profile ranging up to 360 Watts.



SEC UK BlueSolar Monocrystalline Panels

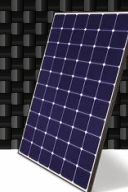
Features:

- Low voltage-temperature coefficient enhances high-temperature operation
- Exceptional low-life 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 material and workmanship
- Sealed, waterproof, multi-functional junction box gives high level of safety
- High performance bypass diodes minimise 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, anodised aluminium 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
- High power models with pre-wired quick-connect system with MC4 (PV-ST01) connectors.

Model	Description	Net Weight	Dimensions (mm)				
			Nominal Power	Max-Power Voltage	Max-Power Voltage	Open-Circuit Voltage	Short-Circuit Current
		Kg	PMPP	VMPP	IMPP	Voc	Isc
			W	V	A	V	A
SPM040201200	20W-12V Mono 440 x 350 x 25mm series 4a	1.9	20	18.5	1.09	22.6	1.19
SPM040301200	30W-12V Mono 560 x 350 x 25mm series 4a	2.2	30	18.7	1.61	22.87	1.76
SPM040401200	40W-12V Mono 425 x 668 x 25mm series 4a	3.1	40	18.3	2.19	22.45	2.40
SPM040551200	55W-12V Mono 545 x 668 x 25mm series 4a	4	55	18.8	2.94	22.9	3.22
SPM040901200	90W-12V Mono 780 x 668 x 30mm series 4a	6.1	90	19.6	4.59	24.06	5.03
SPM041151200	115W-12V Mono 1015 x 668 x 30mm series 4a	8	115	19.0	6.04	23.32	6.61
SPM041751200	175W-12V Mono 1485 x 668 x 30mm series 4a	11	175	19.4	9.03	23.7	9.89
SPM042152400	215W-24V Mono 1580 x 808 x 35mm series 4a	15	215	37.4	5.75	45.82	6.30
SPM043052000	305W-20V Mono 1640 x 992 x 35mm series 4a	18	305	32.5	9.38	39.7	10.27
SPM043602400	360W-24V Mono 1956 x 992 x 40mm series 4a	22	360	38.4	9.38	47.4	10.24

MODULE	SPM 040201200	SPM 040301200	SPM 040401200	SPM 040551200	SPM 040901200	SPM 041151200	SPM 041751200	SPM 042152200	SPM 043052000	SPM 043602400
Nominal Power (±3% tolerance)	20W	30W	40W	55W	90W	115W	175W	215W	305W	360W
Cell type	Monocrystalline									
Number of cells in series	36							72	60	72
Maximum systems voltage	1000v									
Temperature Range	-40°C to +85°C									
Surface Maximum Load Capacity	200 kg/m²									
Length of Cables / Connector Type	No cable				900 mm MC4					
Frame	Aluminium									
Product warranty	5 years									
Warranty on electrical performance	10 years 90% + 25 years 80% of power output									
STC (Standard Test Conditions): 1000 W/m² , 25 °C, AM (Air Mass) 1.5										

SEC UK rigid solar panels are widely used for leisure and professional applications involving battery storage systems, using both Pulse Width Modulated (PWM) and a Maximum Power Point Tracking (MPPT) Charge Controller to regulate the PV panel output voltage.



SEC UK BlueSolar Polycrystalline Panels

Features:

- Low voltage-temperature coefficient enhances high-temperature operation
- Exceptional low-life 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 material and workmanship
- Sealed, waterproof, multi-functional junction box gives high level of safety
- High performance bypass diodes minimise 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, anodised aluminium 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
- High power models with pre-wired quick-connect system with MC4 (PV-ST01) connectors.

Model	Description	Net Weight	Dimensions (mm)				
			Nominal Power	Max-Power Voltage	Max-Power Voltage	Open-Circuit Voltage	Short-Circuit Current
		Kg	PMPP	VMPP	IMPP	Voc	Isc
			W	V	A	V	A
SPP040201200	20W-12V Poly 440 x 350 x 25mm series 4a	1.9	20	18.4	1.09	21.96	1.18
SPP040301200	30W-12V Poly 655 x 350 x 25mm series 4a	2.8	30	18.2	1.66	21.80	1.80
SPP040451200	45W-12V Poly 425 x 668 x 25mm series 4a	3.1	45	19.1	2.36	22.90	2.55
SPP040601200	60W-12V Poly 545 x 668 x 25mm series 4a	4	60	19.3	3.12	23.10	3.37
SPP040901200	90W-12V Poly 780 x 668 x 30mm series 4a	6.1	90	19.5	4.61	23.44	4.98
SPP041151200	115W-12V Poly 1015 x 668 x 30mm series 4a	8	115	18.94	6.08	22.73	6.56
SPP041751200	175W-12V Poly 1485 x 668 x 30mm series 4a	12	175	18.3	9.56	21.9	10.24
SPP032602000	260W-20V Poly 1640 x 992 x 40mm series 3a	17	260	30	8.66	36.75	9.30
SPP042702000	270W-20V Poly 1640 x 992 x 35mm series 4a	18.4	270	31.7	8.52	38.04	9.21
SPP043302400	330W-24V Poly 1956 x 992 x 40mm series 4a	22.5	330	37.3	8.86	44.72	9.57

MODULE	SPP 040201200	SPP 040301200	SPP 040451200	SPP 040601200	SPP 040901200	SPP 041151200	SPP 041751200	SPP 032601200	SPP 042702000	SPP 043302400
Nominal Power (+3% tolerance)	20W	30W	45W	60W	90W	115W	175W	260W	270W	330W
Cell type	Polycrystalline									
Number of cells in series	36							60	60	72
Maximum systems voltage	1000v									
Temperature Range	-40°C to +85°C									
Surface Maximum Load Capacity	200 kg/m²									
Length of Cables / Connector Type	No cable				900 mm MC4					
Frame	Aluminium									
Product warranty	5 years									
Warranty on electrical performance	10 years 90% + 25 years 80% of power output									
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