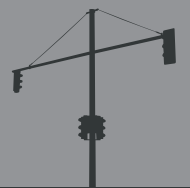


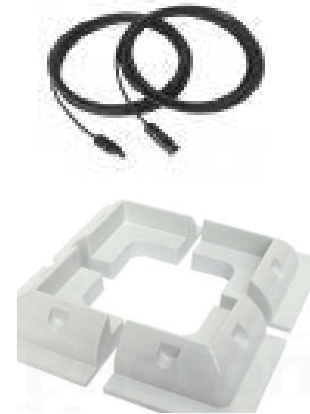


Mobile Solar Power



Mobile Solar Kits Complete

Kit Number	Description	Panel Weight	Panel Dimensions
SPK-301	Mobile Solar Kit 30W 12V	2.5 kg	430 x 545 x 25 mm
SPK-501	Mobile Solar Kit 50W 12V	4 kg	630 x 545 x 25 mm
SPK-801	Mobile Solar Kit 80W 12V	8 kg	1195 x 545 x 35 mm
SPK-1001	Mobile Solar Kit 100W 12V	8 kg	1195 x 545 x 35 mm
SPK-1501	Mobile Solar Kit 160W 12V	12 kg	1480 x 673 x 35 mm
SPK-1802	Mobile Solar Kit 190W 24V	15 kg	1580 x 808 x 35 mm
SPK-2802	Mobile Solar Kit 300W 24V	24 kg	1956 x 992 x 45 mm



Each kit consists of a Solar Panel, MPPT 75/15 Charge Controller, 5m cable kit and mounting brackets, other options available on request

Cable Extension Kits

Kit Number	Description
SPK-1000C	Cable Extension Kit 1M
SPK-3000C	Cable Extension Kit 3M
SPK-5000C	Cable Extension Kit 5M



Wiring example



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Panel Specifications

Article Number	Description	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}
		Kg	W	V	A	V	A
SPM030301200	30W-12V Mono 430x545x25mm series 3a	2.5	30	18	1.67	22.5	2
SPM030501200	50W-12V Mono 630x545x25mm series 3a	4	50	18	2.78	22.2	3.16
SPM030801200	80W-12V Mono 1195x545x35mm series 3a	8	80	18	4.45	22.3	4.96
SPM031001200	100W-12V Mono 1195x545x35mm series 3a	8	100	18	5.56	22.4	6.53
SPM031501200	150W-12V Mono 1480x673x35mm series 3a	12	150	18	8.33	22.4	9.80
SPM031902400	190W-24V Mono 1580x808x35mm series 3a	15	190	36	5.44	43.2	5.98
SPM033002400	300W-24V Mono 1956x992x45mm series 3a	24	300	36	8.06	45.5	8.56

Module	SPM 030301200	SPM 030501200	SPM 030801200	SPM 031001200	SPM 031501200	SPM 031902400	SPM 033002400
Nominal Power (±3% tolerance)	30W	50W	80W	100W	150W	190W	300W
Cell type	Monocrystalline						
Number of cells in series	36			72			
Maximum system voltage (V)	1000 V						
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
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
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
Temperature Range	-40°C to +85°C						
Surface Maximum Load Capacity	200 kg/m ²						
Allowable Hail Load	23 m/s, 7.53 g						
Junction Box Type	PV-LH0801		PV-LH0808			PV-JB002	
Length of Cables / Connector Type	No cable	No cable	900 mm MC4				
Output tolerance	+/-3%						
Frame	Aluminium						
Product warranty	5 years						
Warranty on electrical performance	10 years 90% + 25 years 80% of power output						
Smallest packaging unit	1 panel						
Quantity per pallet	100		40		20		18

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

MPPT Specifications

BlueSolar Charge Controller	MPPT 75/15
Battery voltage	12/24V Auto Select
Rated charge current	15A
Nominal PV power, 12V 1a,b)	220W
Nominal PV power, 24V 1a,b)	440W
Max. PV short circuit current 2)	20A
Automatic load disconnect	Yes, maximum load 15A
Maximum PV open circuit voltage	75V
Peak efficiency	98%
Self-consumption	10 mA
Charge voltage 'absorption'	14,4V / 28,8V (adjustable)
Charge voltage 'float'	13,8V / 27,6V (adjustable)
Charge algorithm	multi-stage adaptive
Temperature compensation	-16 mV / °C resp. -32 mV / °C
Continuous/peak load current	15A / 50A
Low voltage load disconnect	11,1V / 22,2V or 11,8V / 23,6V or Battery Life algorithm
Low voltage load reconnect	13,1V / 26,2V or 14V / 28V or Battery Life algorithm
Protection	Battery reverse polarity (fuse) Output short circuit / Over temperature
Operating temperature	-30 to +60°C (full rated output up to 40°C)