



Mobile Solar Power

*Keeping you moving
since 1976*



Power Management Specialists

We engineer power management solutions for fleet and specialist vehicles.

Our product line consists of over 500 different items that cover a wide array of applications including battery charging, isolation and low voltage protection.

We have recently developed an innovative solar power system for speciality vehicles. Our solution is particularly appropriate for rapid response vehicles.

Solar Power from Intellitec

Auxiliary applications can now be powered by a battery pack, which is recharged by solar, from panels on the roof of a vehicle.

The process is controlled by PV panels which charge the battery pack by MPPT.

Vehicles can now run auxiliary applications, such as light bars, warning lights and sirens, with the engine off and the vehicle secure. The system's battery will recharge from the solar charge controller or whilst the engine is running.



The system is particularly intended for use by speciality vehicles including rapid response ambulance, police or fire vehicles.

Significant benefits include:

- Reduced fuel cost
- Reduced engine wear
- Zero carbon emissions
- Improved security

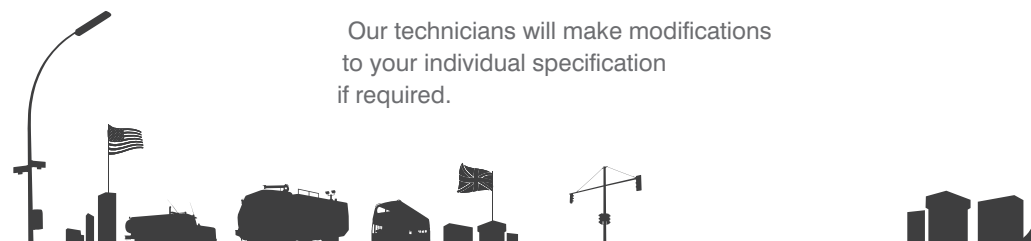


Remote Management & Technical Support

Battery power levels can be monitored or configured using a website portal or smartphone application.

Our team of dedicated technicians are available to provide dedicated support nationwide. We also welcome clients to our facility in the North West to demonstrate the system.

Our technicians will make modifications to your individual specification if required.



Mobile Solar Kits Complete with Corner Mount Brackets

Kit Number	Description	Max Power Voltage	Max-Power Current A	Open-Circuit Voltage	Panel Size mm / Weight
SPK-201	Mobile Solar Kit 20W 12V	18.5	1.09	22.6	440 x 350 x 25 (1.9kg)
SPK-301	Mobile Solar Kit 30W 12V	18.7	1.61	22.87	560 x 350 x 25 (2.2kg)
SPK-401	Mobile Solar Kit 40W 12V	18.3	2.19	22.45	425 x 668 x 25 (3.1kg)
SPK-501	Mobile Solar Kit 55W 12V	18.8	2.94	22.9	545 x 668 x 25 (4kg)
SPK-801	Mobile Solar Kit 90W 12V	19.6	4.59	24.06	780 x 668 x 30 (6.1kg)
SPK-1001	Mobile Solar Kit 115W 12V	19	6.04	23.32	1015 x 668 x30 (8kg)
SPK-1501	Mobile Solar Kit 175W 12V	19.4	9.03	23.7	1485 x 668 x 30 (11kg)
SPK-1802	Mobile Solar Kit 215W 24V	37.4	5.75	45.82	1580 x 808 x 35 (15kg)
SPK-2802	Mobile Solar Kit 360W 24V 75/15 *	38.4	9.38	47.4	1956 x 992 x 40 (22kg)
SPK-3005	Mobile Solar Kit 305W 20V 100/30*	32.5	9.38	39.7	1640 x 992 x 35 (18kg)
SPK-3602	Mobile Solar Kit 360W 24V 100/30*	38.4	9.38	47.4	1956 x 992 x 40 (22kg)



*** Important Information**
 Use SPK-2802 on 24V battery systems only. For 12V battery systems use SPK-3005 or SPK-3602

Each Mobile Solar Kit contains Solar Panel, Charge Controller, Solar Cables (5M) and Corner Mounts

Cable Extension Kits

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

System Example



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Smart Mobile Solar Kits Complete with Corner Mount Brackets for 12V Battery Systems

Kit Number	Description	Max Power Voltage	Max-Power Current A	Open-Circuit Voltage	Panel Size mm / Weight
SPK-20S	Mobile Solar Kit 20W - SMART (12V panel)	18.5	1.09	22.6	440 x 350 x 25 (1.9kg)
SPK-30S	Mobile Solar Kit 30W - SMART (12V panel)	18.7	1.61	22.87	560 x 350 x 25 (2.2kg)
SPK-40S	Mobile Solar Kit 40W - SMART (12V panel)	18.3	2.19	22.45	425 x 668 x 25 (3.1kg)
SPK-55S	Mobile Solar Kit 55W - SMART (12V panel)	18.8	2.94	22.9	545 x 668 x 25 (4kg)
SPK-90S	Mobile Solar Kit 90W - SMART (12V panel)	19.6	4.59	24.06	780 x 668 x 30 (6.1kg)
SPK-115S	Mobile Solar Kit 115W - SMART (12V panel)	19	6.04	23.32	1015 x 668 x30 (8kg)
SPK-175S	Mobile Solar Kit 175W - SMART (12V panel)	19.4	9.03	23.7	1485 x 668 x 30 (11kg)
SPK-215S	Mobile Solar Kit 215W - SMART (24V panel)	37.4	5.75	45.82	1580 x 808 x 35 (15kg)
SPK-305S	Mobile Solar Kit 305W - SMART (20V panel)	32.5	9.38	39.7	1640 x 992 x 35 (18kg)
SPK-360S	Mobile Solar Kit 360W - SMART (24V panel)	38.4	9.38	47.4	1956 x 992 x 40 (22kg)



Each SMART Mobile Solar Kit contains Solar Panel, Charge Controller, Solar Cables (5M) and Corner Mounts

Kits SPK-30S to SPK-115S include:	SMART MPPT 75/10
Kit SPK-175S includes:	SMART MPPT 75/15
Kit SPK-215S includes:	SMART MPPT 100/20
Kits SPK-305S and SPK-360S includes:	SMART MPPT 100/30

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Mobile Solar Kits Complete

Kit Number	Description	Max Power Voltage	Max-Power Current A	Open-Circuit Voltage	Panel Size mm
SPK-018FX	Mobile Solar Kit Semi Flexible 12V 18W	17.2	0.96	18	410 x 285 x 3
SPK-055FX	Mobile Solar Kit Semi Flexible 12V 55W	17.2	2.94	18	580 x 540 x 3
SPK-120FX	Mobile Solar Kit Semi Flexible 12V 120W	17.8	6.42	20.4	1200 x 540 x 3
SPK-150FX	Mobile Solar Kit Semi Flexible 12V 150W	17.8	8.02	20.6	1460 x 540 x 3

The Multi-grid panel is less affected by cracks, has more interconnection points, power generation features can resist cell cracks or fractures and reduce crack failures.

This means you can walk on it and has a high level of durability.



Each Mobile Solar Kit contains Solar Panel, Charge Controller, Solar Cables (5M)

Cable Extension Kits

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



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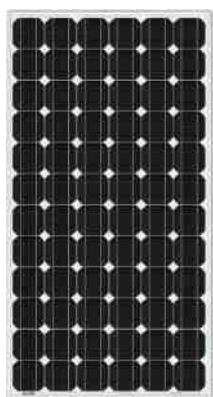
Email: sales@intellitecmv.com

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SPK-2021 Q2 (12-5-2021)

Specifications of the solar panels used in our rigid Mobile Solar Kits



BlueSolar Monocrystalline 305W

- 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 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.



MC4 connectors

Kit Number	Description	Net Weight	Electrical data under STC (1)				
			Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-Circuit Current
			PMPP	VMPP	IMPP	Voc	Isc
		Kg	W	V	A	V	A
SPK-201 & SPK-20S	20W-12V Mono 440 x 350 x 25mm series 4a	1.9	20	18.5	1.09	22.6	1.19
SPK-301 & SPK-30S	30W-12V Mono 560 x 350 x 25mm series 4a	2.2	30	18.7	1.61	22.87	1.76
SPK-401 & SPK-40S	40W-12V Mono 425 x 668 x 25mm series 4a	3.1	40	18.3	2.19	22.45	2.40
SPK-501 & SPK-55S	55W-12V Mono 545 x 668 x 25mm series 4a	4	55	18.8	2.94	22.9	3.22
SPK-801 & SPK-90S	90W-12V Mono 780 x 668 x 30mm series 4a	6.1	90	19.6	4.59	24.06	5.03
SPK-1001 & SPK-115S	115W-12V Mono 1015 x 668 x 30mm series 4a	8	115	19.0	6.04	23.32	6.61
SPK-1501 & SPK-175S	175W-12V Mono 1485 x 668 x 30mm series 4a	11	175	19.4	9.03	23.7	9.89
SPK-1802 & SPK-215S	215W-24V Mono 1580 x 808 x 35mm series 4a	15	215	37.4	5.75	45.82	6.30
SPK-3005 & SPK-305S	305W-20V Mono 1640 x 992 x 35mm series 4a	18	305	32.5	9.38	39.7	10.27
SPK-3602 & SPK-360S	360W-24V Mono 1956 x 992 x 40mm series 4a	22	360	38.4	9.38	47.4	10.24

Kit Number	SPK-201 & SPK-20S	SPK-301 & SPK-30S	SPK-401 & SPK-40S	SPK-501 & SPK-55S	SPK-801 & SPK-90S	SPK-1001 & SPK-115S	SPK-1501 & SPK-175S	SPK-1802 & SPK-215S	SPK-3005 & SPK-305S	SPK-3602 & SPK-360S
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 system voltage	1000V									
Temperature coefficient of MPP (%)	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C
Temperature coefficient of Voc (%)	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C
Temperature coefficient of Isc (%)	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°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-LH0805	PV-LH0806			PV-LH0801	PV-LH0808		PV-LH0701	PV-JB002	
Length of Cables / Connector Type	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									

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



*To find out more please visit our website
www.intellitccmv.com or call us on
0151 482 8970.*

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