

FLEX POWER CONTROL

SMART POWER INTEGRATED NODE (SPIN) 10KW

Advanced power electronics and Vehicle to Home (V2H) system

This revolutionary new product enables homeowners to manage all the functions of a solar PV inverter, energy storage inverter and an electric vehicle charger in one unit. Create energy independence and convenience without compromise.

- V2H backup power
- V2G export power
- Save on utility bills
- Maximize solar PV
- Faster EV charging



SPIN MPX 10kW

FEATURES



Residential Microgrid

- Advanced power electronics that enable solar PV input and/or stationary battery input to manage all DC loads in the home
- Higher power and modular approach to enable whole-home backup (not just a critical load panel)



Vehicle to Home (V2H)

- Islanding capability that allows for both on-grid and off-grid functionality
- Blackstart *and* auto-islanding capability



Vehicle to Grid (V2G)

- IEEE 2030.5 functionality for grid services



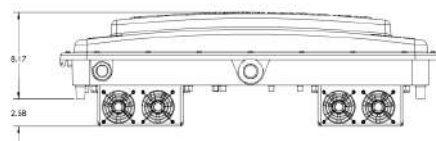
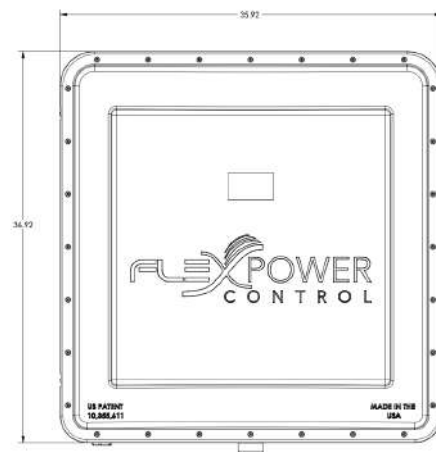
CCS1

- Uses the Combined Charging Standard (CCS) "Combo" connector - the dominant charging standard in US and Europe

Data Sheet

SPIN 10KW

General Specifications		
Model	SPIN EVO	SPIN MPX
Nominal Power	10kW	10kW
Charging cable	CCS1	CCS1
AC Input		
Nominal AC Voltage	240 VAC	240 VAC
Voltage Range	204-276 VAC	204-276 VAC
Power, max	10.0 kVA	10.0 kVA
Frequency	50/60Hz	50/60Hz
Maximum Current	60 A	60 A
Power factor	>0.99	>0.99
Type	Single phase, three wire (L1, L2, N)	Single phase, three wire (L1, L2, N)
DC Input		
PV DC voltage range	SPIN MPX only	250 to 450 VDC
DC Energy Storage voltage range	SPIN MPX only	250 to 450 VDC
EV Battery voltage range	250 to 450 VDC	250 to 450 VDC
Maximum continuous power	10.0kW	10.0kW
Maximum current	40A	40A
Ripple current	<5%	<5%
Output voltage regulation	<1%	<1%
Performance		
Efficiency	>96%	>96%
Environmental		
Operating temperature	-13°F to 140°F (-25°C to +60°C)	-13°F to 140°F (-25°C to +60°C)
Storage temperature	-40°F to 176°F (-40°C to +80°C)	-40°F to 176°F (-40°C to +80°C)
Relative humidity	0-100% condensing	0-100% condensing
Max operating altitude	6560ft (2000m)	6560ft (2000m)
Enclosure rating	NEMA 4 / IP-65	NEMA 4 / IP-65
Mechanical		
Dimensions	36" H x 36" W x 12" D (91cm x 91cm x 30cm)	48" H x 37" W x 9" D (122cm x 94cm x 22cm)
Weight	90lbs (40kg)	110lbs (49.9kg)
Cable Length	15'	15'
Safety and Protection		
Grounding	Galvanic Isolation	Galvanic Isolation
Certifications		
	Planned: UL 2202, UL 1741-SA	Planned: UL 2202, UL 1741-SA
Communication		
Networking	Ethernet, WiFi, Cellular	Ethernet, WiFi, Cellular
Interface	IEEE 2030.5	IEEE 2030.5



Flex Power Control Inc. (FPC) is a power electronics and intelligent energy management system product development company established by automotive engineers with decades experience. Our mission is to create a greater value proposition for consumers on renewables.