

POWER CORE FLEXI

Integrating solar & energy storage has never been easier!

The Power Core Flexi is our ground breaking all in one solar and battery inverter.

Allowing you to easily combine both solar and energy storage in one simple plug and play system. Capable of being paralleled allowing MW power levels to be achieved. Compatible with most types of energy storage. The Flexi allows you to be flexible in your approach to your solar storage applications.

- Reduced infrastructure & component costs.
- 3 DC ports which giving unrivalled flexibility when sizing your solar & storage.
- UPS function offering protection to your facility.
- Both Off & On grid compatible.
- Peak efficiency >98%
- Indoor and outdoor housing
- Solar MPPT



200kW of Integrated power

Solar Inverter & Battery Charger in one

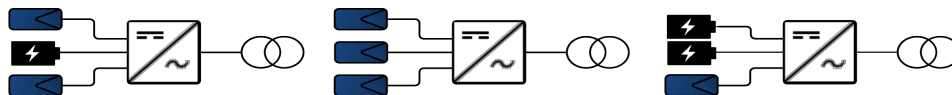
Flexible, efficient & cost effective Inverters

Unrivalled 520kW DC inputs & a 200kW AC output

MSP Power Core Flexi 250kW Inverter

Model	MSP Flexi Inverter	
AC	AC port configuration	IP2W or 2P2W 3P3W
	AC voltage range	480 VRMS +10% / -12%
	AC export power @ 60°C inlet	250 kVA 301 ARMS
	AC import power @ 55°C inlet	250 kVA 301 ARMS
	Overload capacity	110%, 10 minutes 125%, 10 seconds
	AC high voltage ridethrough	1.2 pu
	Maximum grid impedance	8%, 250 kVA base
	Nominal frequency range	50 - 60 Hz (field settable)
	Harmonic distortion	UL1741/IEEE 1547, <2% TDDi per IEEE 519
	Power factor / reactive power	0 leading ... 0 lagging (full 4-quadrant operation)
	Maximum aux. power consumption	750 W (includes ext. cooling pump + fan)
	CEC efficiency	98.0%
	Peak DC to AC efficiency	98.4%
	DC	Battery DC port
Solar DC port		500 ADC 200 - 620 VOC 240 kW
Peak efficiency		98%
Suggested battery voltage range		720 - 1000 VDC
Battery technology		all battery types, fuel cells, other DC sources, etc.
Number of DC inputs	2	
Environmental	Ambient temperature (operation)	-20°C to 50°C
	Ambient temperature (storage)	-20°C to 50°C
	Relative humidity	5% - 100% condensing
	Max elevation	2,000 m [6,500 ft.]
	Airborne noise	<75 dBA @ 1m
	Temperature de-rating	automatic; see charts
Certifications	Safety	UL 1741 (pending)
Protections	AC protection	TBC depending on application
	DC protection	TBC depending on application
	Humidity	TBC depending on application
	Safety features	TBC depending on application
	Ground fault detection	TBC depending on application
Control	Control interface	CAN, Modbus RS485, or Modbus TCP
	Command latency	1 ms
	Response time; e.g. step from full charge to discharge	20 ms; adjustable longer via parameters
	Black-start capable	Yes; requires external control power
	Grid-tied control modes	Voltage mode PQ (power) DQ (current) cos phi (pf) STATCOM MPPT
	Grid-support functions	Volt/VAR Hz/Watt Volt/Watt Fixed PF
	Islanded control modes	V&f
	Control power options	208 - 240 VAC DC: 24 VDC

fig.1 Possible Solar & Storage configurations



The POWER CORE FLEXI integrates with:

- Grid tied and Off grid
- AC Generators
- Renewable inputs
- All battery chemistries

The Power Core Flexi is designed for optimised use in both Multi Source POWER systems and existing systems.

Dealer/Distributor

