THE STABILITI™

30 KW DUAL PORT POWER CONVERSION SYSTEM

Model Number	**30C**
Power Flows	AC DC
Microgrid Support	✔
Grounded DC Configuration w/Fused GFDI Protection	✔
Floating DC Configuration w/IMI Protection	✔
Battery Support	✔
Galvanic Isolation	✔
Bidirectional DC Power Port	✔

Introducing Stabiliti™ 30C, Ideal Power's newest grid-resilient 30 kW power conversion system that unlocks ultimate project versatility. This energy storage technology supports various power flows, including: Storage to Grid, Grid to Storage, as well as AC and DC microgrid applications. Full galvanic isolation eliminates the possibility of unwanted fault current between AC and DC, adding a layer of safety in the event of unexpected equipment failure. With Stabiliti™ multiple units can work in parallel to support higher power applications, and once integrated with external islanding switchgear, will rapidly move from voltage-following to voltage-forming modes to provide backup support of critical loads. Stabiliti™ is battery chemistry agnostic, enabling power (frequency regulation) and energy (peak-shaving) value-streams in a single converter. Stabiliti™ leading the energy+storage revolution. Learn more at **www.idealpower.com**.

IDEAL POWER

VERSATILITY UNLOCKED

Stabiliti ™ Dual Port (AC-DC) Power Conversion System

Specifications*

30 kW

PORT AC1: Bidirectional AC	US & Canada
Wiring Configuration	3 wire delta
Maximum AC Power	29.99 kW
Continuous Output Power Rating	29.99 kW
Nominal AC Current	37 A
Maximum AC Current	44 A
Nominal Output Voltage	480 Vac
Output Voltage Range	422 Vac to 528 Vac
Nominal Output Frequency	60 Hz
Frequency Range	55 Hz to 65 Hz
Nominal Power Factor	> 0.99 at rated output power
Power Factor Range	Programmable: 0.95 leading to 0.95 lagging
Reactive Power Range	Programmable: +18 kVAR to -18 kVAR
CEC Efficiency	95% (estimated)
Peak Efficiency	95.5%
Current Harmonics	< 5% THD
Microgrid / Parallel Microgrid Operation	Yes: Voltage Forming / Load Following
Integrated Microgrid Blackstart	Yes
Available Control Methods	IDLE, NET, GRID POWER, FACILITY POWER

PORT DC2: Battery	
Maximum DC Power	30 kW
Maximum DC Current	60 A
Absolute Max Voltage (Voc)	1000 Vdc
Operating Voltage Range	100 Vdc to 1000 Vdc
Full Power Voltage Range	500 Vdc to 1000 Vdc
Integrated DC Filter	Yes: Differential Choke
Integrated DC Disconnect	No
Wiring Configurations	Grounded Monopolar / Grounded Bipolar / Floating
GFDI protection	1 A: fused
Available Control Methods	IDLE, NET, POWER, CURRENT

Environmental

Transient Overvoltage Protection	AC and DC MOVs in wiring tray
Operating Temperature Range	-25 to 50°C full power, derated > 50°C
Storage Temperature Range	-40 to 85°C (non-operating)
Relative Humidity Range	0 to 100% (non-condensing)
Cooling	Forced convection with variable speed fan

Certification and Standards

UL1741, UL1741SA, and IEEE1547a	Yes
SunSpec Smart Inverter Features	Models: 1, 103, 120, 121, 122, 123, 126, 129, 130, 132, 134, 135, and 136—Pending
CA Rule 21, PJM, RoHS and REACH Compliant	Yes

General

Enclosure Size	20.5"W x 40" H x 16"D	Limited Warranty	10 Year North America, 5 Year International
Weight	~135 lbs	Black Box Recorder	Yes
Mounting	Wall Mount (must be vertical), brackets included	Spare Package (FRUs)	Available
Enclosure Rating / Material	NEMA-3R / powder-coated aluminum	Monitoring/Control Interfaces	RS-485 Modbus RTU - 2W / Modbus TCP over Ethernet
Hinged wiring access panel	Yes	Remote FW Updates	Yes
Galvanic Isolation between AC and DC Ports	Yes	Supported Power Flows	Grid ↔ Battery

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*Specifications subject to change

Ordering Part Number: 30C

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