



# THE STABILITI™

## 30 KW MULTIPOINT POWER CONVERSION SYSTEM

<b>Model Number</b>	<b>30C3</b>
<b>Power Flows</b>	
<b>Microgrid Support</b>	✓
<b>Grounded DC Configuration w/Fused GFDI Protection</b>	✓
<b>Floating DC Configuration w/IMI Protection</b>	✓
<b>Battery Support</b>	✓
<b>Galvanic Isolation</b>	✓
<b>PV MPPT Support</b>	✓
<b>Bidirectional 2nd DC Power Port</b>	✓

**Introducing Stabiliti™ 30C3, Ideal Power's newest grid-resilient multipoint 30 kW power conversion system that unlocks ultimate project versatility. Stabiliti™ offers next generation technology leading the solar+storage revolution. What makes Stabiliti™ different?**

- A multipoint with flexible power flows, including: PV to Storage, PV+Storage to Grid, Grid to Storage, as well as AC & DC microgrid applications.
- Full galvanic isolation for protection against unexpected equipment failure by eliminating the possibility of unwanted fault current between AC & DC.
- Versatility to plug into power grids around the world; integrate multiple sources of generation and storage simultaneously for higher power & backup; facilitate EV fast charging with buffer batteries; and enable peak shaving & demand management applications—all in one box.



**VERSATILITY UNLOCKED**

# Stabiliti™ Multiport (AC-DC-DC) Power Conversion System Specifications\*

# 30 kW

## PORT AC1: Bidirectional AC

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

## US & Canada

## PORT DC2: Battery

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

## PORT DC3: Battery or PV

<b>Maximum DC Power</b>	30 kW
<b>Maximum DC Current</b>	60 A
<b>Absolute Max Voltage (Voc)</b>	1000 Vdc
<b>Operating Voltage Range</b>	100 Vdc to 1000 Vdc
<b>Full Power Voltage Range</b>	500 Vdc to 1000 Vdc
<b>Integrated DC Filter</b>	Yes: Differential Choke
<b>Integrated DC Disconnect</b>	No
<b>Wiring Configurations</b>	DC3 & DC2 use the same common return, therefore both DC2 & DC3 must both be floating or grounded
<b>GFDI protection</b>	1 A: fused
<b>Available Control Methods</b>	IDLE, NET, POWER, CURRENT, MPPT

## Environmental

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

## Certification and Standards

<b>UL1741, IEEE1547a, and IEC62109-1, 2</b>	Yes
<b>SunSpec Smart Inverter Features &amp; UL1741SA</b>	Models: 1, 103, 120, 121, 122, 123, 126, 129, 130, 132, 134, 135, and 136—Pending
<b>CA Rule 21, HECO, PJM Compliant</b>	Pending
<b>RoHS and REACH Compliant</b>	Yes

## General

<b>Enclosure Size</b>	20.5"W x 40" H x 16"D
<b>Weight</b>	~135 lbs
<b>Mounting</b>	Wall Mount (must be vertical), brackets included
<b>Enclosure Rating / Material</b>	NEMA-3R / powder-coated aluminum
<b>Hinged wiring access panel</b>	Yes
<b>Galvanic Isolation between AC and DC Ports</b>	Yes

<b>Limited Warranty</b>	10 Year North America, 5 Year International
<b>Black Box Recorder</b>	Yes
<b>Spare Package (FRUs)</b>	Available
<b>Monitoring/Control Interfaces</b>	RS-485 Modbus RTU - 2W / Modbus TCP over Ethernet
<b>Remote FW Updates</b>	Yes
<b>Supported Power Flows</b>	PV → Grid, PV → Grid+Batt, PV+Batt → Grid PV+Grid → Batt, Grid ↔ Batt

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\*Specifications subject to change  
Ordering Part Number: 30C3

**IDEAL POWER**

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