



THE STABILITI™

30 KW MULTIPOINT POWER CONVERSION SYSTEM

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

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

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| 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% |
| 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 |

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| 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 |

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| PORT DC3: Battery or PV | |
| 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 | DC3 & DC2 use the same common return, therefore both DC2 & DC3 must both be floating or grounded |
| GFDI protection | 1 A: fused |
| Available Control Methods | IDLE, NET, POWER, CURRENT, MPPT |

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| 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 |

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| 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 |

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

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