THE STABILITI™

30 KW MULTIPORT POWER CONVERSION SYSTEM

Model Number	**30C3**
Power Flows	AC, DC, DC
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 multiport 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 multiport 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.

IDEAL POWER

VERSATILITY UNLOCKED

Stabiliti ™ Multiport (AC-DC-DC) Power Conversion System

Specifications*

30 kW

PORT AC1: Bidirectional AC	US & Canada
Wiring Configuration	3 wire delta
Maximum AC Power	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

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

PORT DC3: Battery or PV	
Maximum DC Power	30 kW
Maximum DC Current	60 A
Absolute Max Voltge (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

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, IEEE1547a, and IEC62109-1, 2	Yes
SunSpec Smart Inverter Features & UL1741SA	Models: 1, 103, 120, 121, 122, 123, 126, 129, 130, 132, 134, 135, and 136—Pending
CA Rule 21, HECO, PJM Compliant	Pending
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	PV → Grid, PV → Grid+Batt, PV+Batt → Grid PV+Grid → Batt, Grid ↔ Batt

idealpower.com

*Specifications subject to change

Ordering Part Number: 30C3

IDEAL POWER

DAT-00009 Rev K

June 2017