




IDEAL POWER

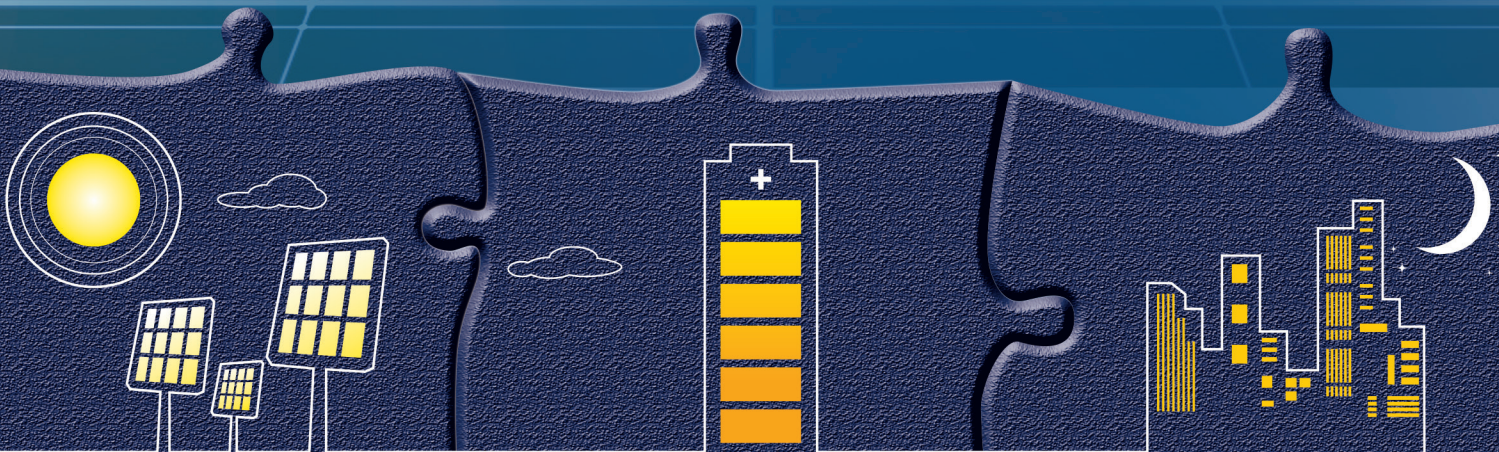
Grid-Tied Commercial PV String Inverters

Solar First

Storage Ready

	The SunDial™		The SunDial™ Plus	
	30PV	30PVF	30PV+S	30PVF+S
Model Number				
Power Flows	PV → AC			
Installed PV Combiner	✓	✓	✓	✓
Grounded DC Configuration w/Fused GFDI Protection	✓		✓	
Floating DC Configuration w/IMI Protection		✓		✓
Battery Support			✓	✓
PV MPPT Support	✓	✓	✓	✓
Certified Field Upgrade Capable (+S)	✓	✓		

Your all-in-one SOLUTION to the SOLAR + STORAGE PUZZLE



DIAL UP YOUR SUN

The SunDial™ Grid-Tied Commercial PV String Inverter Specifications*

30 kW

PORT AC1: Unidirectional AC

Wiring Configuration	3 wire delta	Nominal Power Factor	> 0.99 at rated output power
Maximum AC Power	29.99 kW	Power Factor Range	Programmable: 0.95 leading to 0.95 lagging
Continuous Output Power Rating	29.99 kW	Reactive Power Range	Programmable: +18 kVAR to -18 kVAR (+S)
Nominal AC Current	37 A	CEC Efficiency	95%
Maximum AC Current	44 A	Peak Efficiency	95.5%
Nominal Output Voltage	480 Vac	Tare Losses	25 W
Output Voltage Range	422 Vac to 528 Vac	Current Harmonics	< 5% THD
Nominal Output Frequency	60 Hz	Available Control Methods	NET, IDLE, GRID POWER (+S)
Frequency Range	55 Hz to 65 Hz		

PORT DC2: PV

Maximum DC Power	30 kW	Integrated PV Combiner	Yes: 6 Strings
Maximum DC Current	60 A	Integrated DC Disconnect	Yes
Absolute Max Voltage (Voc)	1000 Vdc	Wiring Configurations	Grounded Monopolar / Floating
Operating Voltage Range	100 Vdc to 1000 Vdc	GFDI protection	1 A: fused
Full Power Voltage Range	500 Vdc to 1000 Vdc	Available Control Methods	MPPT
Integrated DC Filter	No		

PORT DC3: Battery (+S upgrade option) *Solar First. Storage Ready.*

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

Environmental

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

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 52" H x 16"D	Black Box Recorder	Yes
Weight	~150 lbs	Spare Package (FRUs)	Available
Mounting	Vertical Wall Mount, brackets included	Monitoring/Control Interfaces	RS485 Modbus RTU - 2W/ Modbus TCP over Ethernet
Enclosure Rating / Material	NEMA-3R / powder-coated aluminum	Remote FW Updates	Yes: via Ethernet
Hinged wiring access panel	Yes	Supported Power Flows 30PV/30PVF	PV → Grid
Galvanic Isolation between AC and DC Ports	Yes: internal high-frequency Link Transformer	Supported Power Flows 30PV + S/ 30PVF + S	PV → Grid PV → Grid+Batt (+S), PV+Batt → Grid (+S)
5 Year Limited Warranty	Standard, extensions available		

idealpower.com

*Specifications subject to change

Ordering Part Number: 30PV (Grounded, PV only); 30PV+S (includes optional storage upgrade); 30PVF (Floating, PV only); 30PVF + S (Floating, includes optional storage upgrade)

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