

Commercial: 30K-3P-208V



Perfect for Light Commercial

Simplifies adding energy storage to small commercial buildings.

Native 120/208 3P output simplifies installation, removing the need for bulky step-down transformers.

AC/DC Coupling Capability

Enables seamless integration with existing grid-tied PV systems.

Allows for efficient DC coupling using the integrated 4x channel MPPT charge controller.

Modular & Scalable Energy

Modular and flexible design allows for easy installation and expansion.

Accommodates a range of system sizes with outputs starting from 30kW going to 300kW.

Seamless Backup Power

Helps meet your corporate renewable energy goals and decarbonization efforts.

Blazing fast 15ms transfer time with 200 A grid relay allows for business continuity during grid outages.

Input Data (PV)	
Max. Allowed PV Power (STC)	39,000 W
MPPT Voltage Range	150-500 V
Startup Voltage	180 V
Max. Input Voltage ¹	550 V
Max. operating input current per MPPT	36 A
Max. short circuit current per MPPT	55 A
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input Power	30,000 W
Output Data (AC)	
Nominal AC Voltage (3Φ)	120/208 V
Grid Frequency	50 / 60 Hz
Real Power, max continuous (3Φ)	30,000 W
Max. Output Current	83.4 A
Peak Apparent Power (10s, off-grid, 3Φ)	45,000 VA
Max. Grid Passthrough Current (10min)	200 A
Continuous Grid Passthrough Current	180 A
Power Factor Output Range	+/- 0.8 (adjustable)
Backup Transfer Time	15ms (adjustable)
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	With up to 10 units in parallel
Battery Input Data (DC)	
Battery Chemistry	Lithium-ion
No. of Battery Inputs	2
Battery Input Terminal Rating	50 A
Nominal DC Voltage	≥300 V
Operating Voltage Range	160 - 500 V
Battery Capacity Range	50 — 9900 Ah
Max. Battery Charge / Discharge Current	100 A (50 A per input)
Charge Controller Type	CC/CV - BMS Controlled
Grid to Battery Charging Efficiency	96.0%
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication ²	CAN (Controller Area Network)
General Data	
Dimensions (H x W x D)	894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in)
Weight	80 Kg / 176 lb.
Enclosure	IP65 / NEMA 3R
Operating Temperature	-40 – 60°C, >45°C Derating
Operating Altitude ³	2000 m (6561 ft)
Noise Level	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load	60 W
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Warranty	10 Years
Category	
Certifications and Listings (Grid Support Interactive Inverter)	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP
PV DC Disconnect Switch — NEC 240.15	Integrated
Ground Fault Detection — NEC 690.5	Integrated
PV Rapid Shutdown Control — NEC 690.12	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Surge Protection	DC Type II / AC Type III

¹ See the *Installation Manual* for details on sizing array strings. Highest input voltage is based on the open-circuit voltage of the array at minimum design temperature.

² Active BMS communication is required for all lithium batteries. See solark.com for list of compatible battery partners.

³ Derating occurs above 2000 m (6561 ft).

Sol-Ark reserves the right to modify its specifications at any time and without prior notice. Please visit sol-ark.com for the latest information.