Commercial: 60K-3P-480V

Perfect for Large Industrial

Simplifies adding energy storage to small commercial buildings.

Native 277/480V 3P output with Wye or Delta options simplifies installation removing the need for external transformers

AC/DC Coupling Capability

Enabling 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 allowing for easy installation and expansion.

Accommodates a range of system sizes with outputs starting from 60kW going to 600kW

Seamless Backup Power

Helps met your corporate renewable energy goals and decarbonization efforts

Blazing fast 20ms transfer time with 200A grid relay allows for business continuity during grid outages.

DATASHEET

60K-480V

SKU: 60K-3P-480V

60K-3P-480V C&I Hybrid Inverter

Input Data (PV)	
Max. Allowed PV Power (STC)	78,000W
MPPT Voltage Range	150-850V
Startup Voltage	180V
Max. Input Voltage [1]	1,000V
Max. operating input current per MPPT	36A
Max. short circuit current per MPPT	55A
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input	60,000W
Output Data (AC)	
Nominal AC Voltage (3Φ) [2]	277/480V (4-wire Wye) or 480V (3-wire Delta)
Grid Frequency	50 / 60Hz
Real Power, max continuous (3Φ)	60,000W
Max. Output Current	72.3A
Peak Apparent Power (10s, off-grid, 3Φ)	90,000VA
Max. Grid Passthrough Current (10min)	200A
Continuous Grid Passthrough Current	180A
Power Factor Output Range	+/- 0.8 adjustable
Backup Transfer Time	Up to 15ms
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	Up to 10 in parallel
Battery Input Data (DC)	
Supported Battery Chemistry	Lithium-ion
No. of Battery Inputs	2
Battery Input Terminal Rating	50A
Nominal DC Voltage	≥ 600V
Operating Voltage Range	160 - 700V
Battery Capacity Range	50 — 9900Ah
Max. Battery Charge / Discharge Current	100A (50A 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 [3]	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 [4]	2000 m (6561 ft)
Noise Level @ 1m	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load	60W
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 Installation Guide for details on sizing array strings. Highest input voltage is based on the open-circuit voltage of the array at minimum design temperature
[2] Does not support corner grounded delta, high leg delta, or 240V delta systems. Consult installation manual or solark.com for details..
[3] Active BMS communication is required for all lithium batteries. See solark.com for list of compatible battery partners.
[4] Derating occurs above 2000m (6561 ft).

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