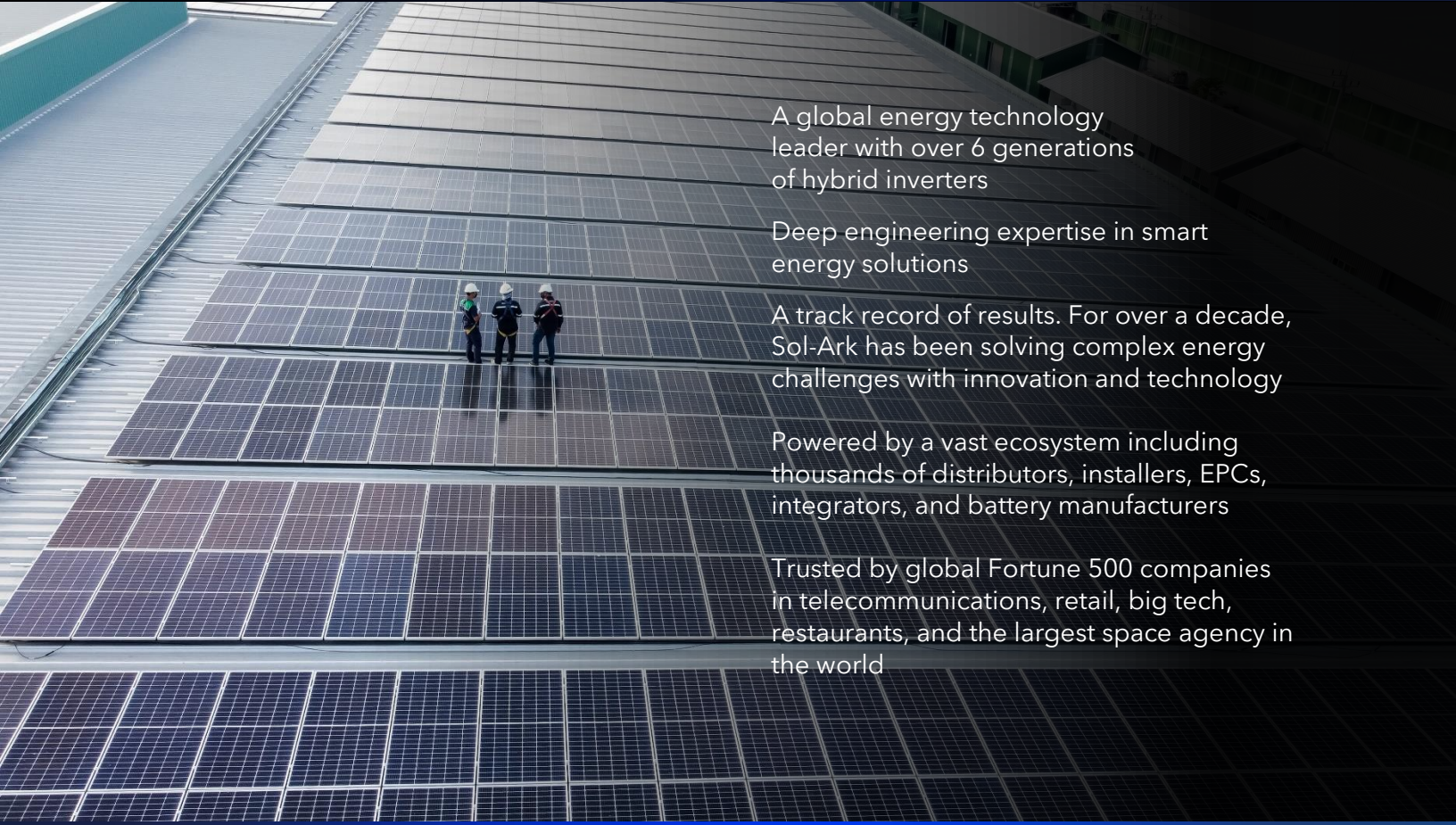




Sol-Ark Commercial Energy Solutions



A global energy technology leader with over 6 generations of hybrid inverters

Deep engineering expertise in smart energy solutions

A track record of results. For over a decade, Sol-Ark has been solving complex energy challenges with innovation and technology

Powered by a vast ecosystem including thousands of distributors, installers, EPCs, integrators, and battery manufacturers

Trusted by global Fortune 500 companies in telecommunications, retail, big tech, restaurants, and the largest space agency in the world

DATASHEET

60K-480V

C&I Hybrid Inverter

Inverter Model Name:

Sol-Ark Product SKU:

60K-3P-480V

60K-3P-480V

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)		277/480V
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		5ms (adjustable)
CEC Efficiency		96.5%
Max Efficiency		97.5%
Design (DC to AC)		Transformerless DC
Stackable		Up to 10 in parallel
Battery Input Data (DC)		
Battery Chemistry		Lithium iron phosphate
No. of Battery Inputs		2
Battery Input Terminal Rating		50A
Nominal DC Voltage		≥ 600V
Operating Voltage Range		160 - 800V
Battery Capacity Range		50 – 9900Ah
Max. Battery Charge / Discharge Current		100A (50A per input)
Charge Controller Type		3-Stage with Equalization
Grid to Battery Charging Efficiency		96.0%
Automatic Generator Start (AGS)		2 Wire Start - Integrated
BMS Communication ²		CANBus & RS485
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
Ambient Temperature		-40 – 60°C, >45°C Derating
Noise		< 30 dB @ 25°C (77°F)
Idle Consumption - No Load		60W
Communication and Monitoring		Wi-Fi & LAN Hardware Included
Warranty ³		10 Years (15 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 ⁴
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 more details on sizing array strings. The highest input voltage is based on the open-circuit voltage of the array at the minimum design temperature.

2. Active BMS communication is required for all lithium batteries. A list of compatible batteries can be found on our website.

3. 5-year extension is available for purchase by registered Gold level installers only.

4. Pending listing.