## Sol-Ark

# 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 5ms transfer time with 200A grid relay allows for business continuity during grid outages.

### DATASHEET 60K-480V C&I Hybrid Inverter

Inverter Model Name: 60K-3P-480V 60K-3P-480V Sol-Ark Product SKI Input Data (PV) Max. Allowed PV Power (STC) 78,000W **MPPT Voltage Range** 150-850V Startup Voltage 180V Max. Input Voltage <sup>1</sup> 1,000V Max. operating input current per MPPT 36A 55A Max. short circuit current per MPPT 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 (3Ф) 60,000W Max. Output Current 72.3A 90,000VA Peak Apparent Power (10s, off-grid, 3Φ) 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% 97.5% Max Efficiency 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 50 – 9900Ah **Battery Capacity Range** 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 <sup>2</sup> CAN (Controller Area Network) General Data 894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in) Dimensions (H x W x D) 80 Kg / 176 lb. Weight IP65 / NEMA 3R Enclosure -40 - 60°C, >45°C Derating **Operating Temperature** 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 UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, **Certifications and Listings** IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), (Grid Support Interactive Inverter) 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 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 battery partners can be found on our website.

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