Sol-Ark

Commercial: 60K-3P-480V



Perfect for Heavy Commercial

Simplifies adding energy storage to commercial buildings

Native 277/480 3 phase output simplifies installation

AC/DC Coupling Capability

Enabling seamless integration with existing solar PV systems

Seamless integration with new arrays

Modular & Scalable Energy

Modular and flexible design allowing for easy energy expansion

Accommodates growing energy needs from 60kW to 600kW

Seamless Backup Power

Provides reliable blazing fast 5ms transfer and backup power during grid outages

200A grid pass-through for simple grid-tied and backup applications

Ensures business continuity

Helps meet your corporate renewable energy goals and decarbonizations efforts

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

Inverter Model Name: 60K-3P-480V 60K-3P-480 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 1 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 60,000W Max. AC Coupled Input 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 180A **Continuous Grid Passthrough Current 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) Battery Chemistry** Lithium iron phosphate No. of Battery Inputs 2 **Battery Input Terminal Rating** 50A Nominal DC Voltage ≥ 600V **Operating Voltage Range** 160 - 800V 50 – 9900Ah **Battery Capacity Range** 100A (50A per input) Max. Battery Charge / Discharge Current **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) 80 Kg / 176 lb. Weight Enclosure IP65 / NEMA 3R Ambient Temperature -40 - 60°C, >45°C Derating < 30 dB @ 25°C (77°F) Noise Idle Consumption - No Load 60W **Communication and Monitoring** Wi-Fi & LAN Hardware Included Warranty ³ 10 Years (15 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, SGIP⁴ 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 DC Type II / AC Type III

Surge Protection

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.

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

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

4. Pending listing.