

## **Sol-Ark Commercial Energy Solutions**



## DATASHEET

## 30K-208V

## **C&I** Hybrid Inverter

rter Model Name: Ark Product SKU:	<b>30K-3P-208V</b> 30K-3P-208V
out Data (PV)	
Max. Allowed PV Power (STC)	39,000W
MPPT Voltage Range	150-500V
Startup Voltage	180V
Max. Input Voltage <sup>1</sup>	550V
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 Power	30,000W
Output Data (AC)	
Nominal AC Voltage (3Φ)	120/208V
Grid Frequency	50 / 60Hz
Real Power, max continuous (3Φ)	30,000W
Max. Output Current	83.4A
Peak Apparent Power (10s, off-grid, 3Φ)	45,000VA
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)	77.3 %  Transformerless DC
Stackable	Up to 10 in parallel
	Op to 10 III paramet
Battery Input Data (DC)	
Battery Chemistry	Lithium iron phosphate
No. of Battery Inputs	2
Battery Input Terminal Rating	50A
Nominal DC Voltage	≥300V
Operating Voltage Range	160 - 500V
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 <sup>2</sup>	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 <sup>3</sup>	10 Years (15 Years)
Category	
	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16,
Certifications and Listings (Grid Support Interactive Inverter)	IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0),
	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
Surge Protection  See Installation Guide for more details on sizing array strings. The highest input volt Active BMS communication is required for all lithium batteries. A list of compatible leads to the communication of the the commun	DC Type II / AC Type III  tage is based on the open-circuit voltage of the array at the minimum design temperature.  hatteries can be found on our website