

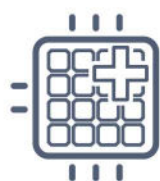
Sol-Ark 18K 2P-N

The Most Powerful Inverter Ever



Powerful. Intelligent. Reliable

Engineered for the most grueling off-grid or back-up needs, the 18k 2P-N can deliver industry leading continuous power from batteries to support large loads. The 18k 2P-N delivers 36kW of surge power for 10s to ensure HVAC units and motors have no problem starting in a grid-down scenario. In order to ensure adequate production, the 18k 2P-N supports more PV than any other residential inverter (over 40kW when utilizing AC coupled functionality). This power-house unit runs American engineered firmware, keeps your data stateside, and comes standard with a 10 year warranty. Don't rely on the grid, take control of your energy.



MAXPV
BUILD BIGGER ARRAYS

Support over 40kw of solar with AC coupling.



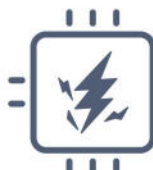
SNAPPPOWER
SURGE TO MEET LOCKED ROTOR AMPS

Keep motor loads online.



DATALOCK
KEEP YOUR DATA SAFE

American engineered data transmission.



MEGAPOWER
ULTIMATE POWER

Deliver 18kw continuously.



Input Data (PV)	
Max. Usable PV Power	28,800W
Max. AC Coupled Input	19,200W
Rated MPPT Operating Voltage Range	150 - 425V
Startup Voltage	125V
Max. DC Input Voltage ¹	500V
Max. Operating Input Current per MPPT	36A
Max. Short Circuit Current per MPPT	54A
No. of MPP Trackers	3
No. of PV Strings per MPPT	2
Output Data (AC)	
Continuous Power	18,000W
Surge Power (10s)	36,000W
Nominal AC Voltage	120/240; 208 0.88Un < U < 1.1Un
Grid Frequency	60/55-65
Output Current (Cont.)	75A
Max. Grid Passthrough Current	200A
Max Efficiency	97.6%
Stackable	Yes; Max 12
Battery Input Data (DC)	
Nominal DC Voltage	48V
Operating Voltage Range	40 - 60V
Capacity	50 – 9900Ah
Continuous Battery Current	350A
Battery Disconnecting Means	200A/pole x 2
Charging Controller	3-Stage with Equalization
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication	CANBus & RS485 MODBUS
General Data	
Dimensions [H x W x D (mm)]	863 x 464 x 282 mm
Weight	62.4 Kg / 137 lb.
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-40~+60°C, > 45°C Derating
Operating Altitude ²	3000 m (9843 ft)
Noise	< 50 dB
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Standard Warranty	10 Years
Protection and Certifications	
Certifications and Listings	UL1741 3rd SB, UL1741 CRD-PCS, IEEE1547-2018 and interoperability using IEEE2030.5, Hawaiian Electric SRD V2.0, UL1699B PVDC AFCL, UL1998, CSA C22.2 No. 107