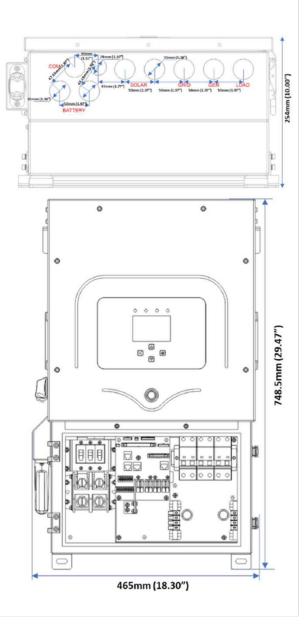


Sol-Ark-5K-48-ST Specifications			
Solar Output Power 6500W			
Max allowed PV Power	3250W+3250W = 6,500W		
Max PV power delivered to Battery & AC outputs	6500W		
Max DC voltage	500V		
MPPT voltage range	150-425V		
Starting voltage	125V		
Number of MPPT	2		
Max Solar Strings per MPPT	2		
Max DC current per MPPT (self limiting)	10A/10A		
Max AC Coupled Input (Micro/String Inverters)	9,600W/9,600W		
AC Output Power 5000W On Grid & 500	0W Off Grid		
Connections	120/240/208V split phase		
	5000W 20.8A L-L (240V)		
Continuous AC power to Grid (On-Grid)	3500W 29.1A L-N (120V)		
Continuous AC power to Load (Off-Grid)	5000W 20.8A L-L (240V) 3500W 29.1A L-N (120V)		
Surge AC power 10sec	16000VA L-L (240V)		
Surge AC power 100ms	25000VA L-L (120V)		
Frequency	60/50Hz		
Continuous AC nonvenuith Crid or Concertor	15120W 63A L-L (240V)		
Continuous AC power with Grid or Generator	7560W 63A L-N (120V)		
CEC Efficiency	96.5% (Peak 97.5%)		
Idle Consumption typical – no load	60W Limited to Household or		
Sell back power modes	Full Grid-Tied		
Design (DC to AC)	Transformerless DC		
Response Time (Grid-Tied to Off-Grid)	4ms		
Power Factor	+-0.9 - 1.0		
Battery (optional) Output Power 5000W			
Туре	Lead-Acid or Li-Ion		
Nominal DC Input	48V		
Capacity	50 – 9900Ah		
Voltage Range	43.0-63.0V		
Continuous Battery charging output	120A		
Charging curve	3-stage w/ equalization		
Grid to Battery Charging Efficiency	96.0%		
External temperature sensor	included		
Current shunt for accurate % SOC	integrated		
External Generator Start based on voltage or % SOC	integrated		
Communication to L ithium battery	CanBus & RS485		

General		
Dimensions (H x W x D)	30.0" x 18.30" x 10.00"	
Weight	78 lbs	
Enclosure	NEMA Type 3R	
Ambient Temperature (3 variable speed fans)	-25 to 55C, >45C derating	
Display	Color touch screen	
Wi-Fi Communication (monitoring or SW updates)	included	
Snap on sensors for limited selling to Household	included	
Standard Warranty (verified by HALT testing)	5 years	

Protection & Certifications		
Electronics certified safety by SGS labs to NEC		
& UL specs - NEC 690.4B & NEC 705.4/6	Yes	
Grid Sell Back – UL1741-2010/2018,		
IEEE1547a-2003/2014, FCC 15 class B,		
UL1741SA, CA Rule 21, HECO Rule 14H	No	
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/		
UL1699B	integrated	
PV input lightning protection	integrated	
AC input/output 63A breakers	integrated	
Battery breaker / disconnect	integrated	
User wiring enclosure w/ ¾" & 1" knock-outs	integrated	



August 20th, 2021