Sol-Ark-12K-P Specifications		
Solar Output Power 12000W		
Max allowed PV Power	6500W+6500W = 13,000W	
Max PV power delivered to Battery & AC outputs	12000W	
Max DC voltage	500V@18A, 450V@20A	
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)	20A@300V, 18A@400V	
Max AC Coupled Input (Micro/String Inverters)	9,600W / 9,600W	
AC Output Power 9000W On Grid & 9000W Off Grid		
Connections	120/240/208V split phase	
	9000W 37.5A-L (240V)	
Continuous AC power to Grid (On-Grid)	4800W 40A L-N (120V)	
Continuous AC nower to Load (Off-Grid)	9000W 37.5A-L (240V)	
Surge AC power 10sec	4800W 40A L-N (120V) 16.000VA L-L (240V)	
Surge AC power 100ms	25,000VA L-L (240V)	
Parallel Stacking	2-8 (240V), 2,3,6,9 (208V)	
Frequency	60/50Hz	
Continuous AC nower with Grid or Congrator	15120W 63A L-L (240V)	
	7500W 05A L-N (120V)	
Idle Consumption typical – no load	50.5% (Peak 97.5%)	
	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 9000W	I	
Туре	Lead-Acid or Li-Ion	
Nominal DC Input	48V	
Capacity	50 – 9900Ah	
Voltage Range	43.0 - 63.0V	
Continuous Battery charging out put	185A	
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 Lithium battery	CanBus & RS485	
General		
	30.0″ x 18.30″ x 10.00″	
Weight	78 lhc	
Enclosure	NEMA Type 3R	
Amhient Temperature (3 variable speed fans)	-25 to 550 >450 derating	
	Color touch scroop	
Wi-Fi Communication (monitoring or SW undates)	included	
Shan on sensors for limited selling to Household	included	
Standard Warranty (verified by HALT tecting)	10 years	
standard warranty (vernied by riALT testing)	10 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	Yes	
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	
Solar Flare/EMP Hardened to 2015 MIL-STD-		
461G (Independently tested June 2018)	optional	

