

## 15K-2P Spec Sheet



Solar	Input Power 19000W
Max Allowed PV Power	19000W
Max PV Power Delivered to Battery & AC Outputs	15000W
Max DC Voltage (Voc)	500V @ 26A
MPPT Voltage Range	150-425V
Starting Voltage	125V
Number of MPPT	3
Max Solar Strings Per MPPT	2
Max DC Current per MPPT (Self Limiting)	26A
Max AC Coupled Input (Micro/String Inverters)	19200W

AC Output Power 15kW	/ On-Grid & Off-Grid								
Connections	120/240/208V Split Phase								
Continuous AC Power with PV	15000W 62.5A-L (240V)								
Continuous AC Power from Batteries	12000W 50A-L (240V)								
Surge AC Power 10sec Surge AC Power 100ms	18000VA L-L (240V) 22500VA L-L (240V)								
Total Harmonic Distortion (THD)	Less Than or Equal to 3%								
Parallel Stacking	Yes - Up to 12								
Frequency	60/50Hz								
Continuous AC Power with Grid or	48000W 200A L-L (240V)								
Generator	24000W 200A L-N (120V)								
CEC Efficiency	96.5% (Peak 97.5%)								
Idle Consumption Typical—No Load	90W								
Sell Back Power Modes	Limited to Household/Fully Grid-Tied								
Design (DC to AC)	Transformerless DC								
Response Time (Grid-Tied to Off-Grid)	5ms								
Power Factor	+/- 0.9 - 1.0								

Battery (optional) Out	put Power 12000W
Туре	Lead-Acid or Li-Ion
Nominal DC Input	48V
Capacity	50 — 9900Ah
Voltage Range	43.0 — 63.0V
Continuous Battery Charging Output	275A
Charging Curve	3-Stage w/ Equalization
Grid to Batt Charging Efficiency	96.0%
External Temperature Sensor	Included
Current Shunt for Accurate % SOC	Integrated
External Gen Start Based on Voltage or %SOC	Integrated
Communication to Lithium Battery	CanBus & RS485

General	
Dimensions (H x W x D)	31.8" x 18.3" x 10.9"
Weight	135 lbs
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-40~60°C, >45°C Derating
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty (verified by HALT Testing)	10 Years

<b>Protections &amp; Certifications</b>	
Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6	Yes
Grid Sell Back — UL1741-2010/2018, IEE- E1547a-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	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
AC Output Breakers - 200A	Integrated
2 x 200A Battery Breaker / Disconnect	Integrated
Surge Protection	DC Type II / AC Type II

Battery Bank	Outdoor Enclosure	NEC UL1699B Arc Fault	California & HECO (Grid Sell)	AC Load Shedding for TOU & Off Grid	Generator Charging	120/240/208V 3Phase	Parallel Stacking	AC Coupling to existing Inverters	Warranty	Low Cost Easy Install	Grid Failure UPS Transfer Time	Time of Use or Off Grid PV -> Batt -> AC Losses @ 65%	On Grid PV to AC Efficiency @ CEC	Batt to AC Efficiency @ 65%	AC to Batt Efficiency @ 65%	PV to Batt Efficiency @ 65%	User Interface		AC to DC Charger	System Idle Power	Off Grid Inverter AC Peak Power (5s)	Inverter Battery Continuous Power	Inverter AC Continuous Power	Solar PV Continuous Power	MSRP Price	Brand & Model			Design Type
20KWh 6000cycles +\$13K	<	<b>√</b>	<b>√</b>	<	<	<	<b>~</b>	<b>√</b>	10 yr	<b>4</b>	5ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	250A	90W	24KW	12KW	15KW	16KW	\$8,000		Sol-Ark 15K		
20KWh 6000cycles +\$13K	<	\ \	~	<b>~</b>	<	<	~	<b>√</b>	10 yr	<u> </u>	4ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	185A	W09	16KW	My6	9KW	12KW	\$6,900		Sol-Ark 12K		
20KWh +\$13K	<	<b>√</b>	<b>√</b>	<b>~</b>	<	×	Х	<b>√</b>	5/10 yr	V	4ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	185A	60W	16KW	8KW	8KW	9KW	\$6,100		Sol-Ark 8K		DC Trans
20KWh +\$13K	<	<b>√</b>	X	<b>~</b>	<	×	Х	<b>√</b>	5 yr	V	4ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	120A	60W	16KW	5KW	5KW	6.5KW	\$4,500		Sol-Ark 5K		DC Transformerless
18KWh 3500c +\$13K	<	<b>✓</b>	\ \	~	×	<	Х	X	10 yr	V	1000ms	15%	95.5%	93.0%	93.0%	92.0%	Text		6.7KW		12KW	9KW	7.6KW	11KW	\$6,500	+4xS2500	PWRcell 7.6	Generac	
2x9.8KWh 3000c +\$12K	<	<b>~</b>	<b>~</b>	×	×	×	۷	<b>~</b>	12/20/25 yr	<	3000ms	14%	98.0%	93.5%	93.5%	92.5%	Text		5KW?		6.9KW	6.1KW	7.6KW	7.6KW	\$7,600	7.6 32xP400	Energy Hub	SolarEdge	
18KWh 3000c +\$15K	×	X	<b>\</b>	×	×	×	<	<b>~</b>	10 yr	<b>V</b>	20ms	19%	95.5%	90.0%	90.0%	91.0%	Text		120A	200W	13KW	2x5.5KW	2x5KW	2x6KW	\$6,200	2xH5001	(Darfon)	Danasonis	
21.0KWh 6000cycles	<	<b>√</b>	<b>~</b>	×	×	×	<b>√</b>	<b>√</b>	10 yr	<b>V</b>	20ms	13%	97.0%	95.0%	95.0%	92.0%	X		N/A		8.8KW	2x3.8KW	10.4KW	10.4KW	\$28,440	+36xIQ7P	2x10	Ennhace	AC C
28KWh 3500cycles	<	•	<b>\</b>	×	×	<	•	<b>~</b>	10 yr	<u> </u>	2000ms	13%	97.0%	95.0%	95.0%	92.5%	×		N/A	78W	14KW	2x5KW	2x5KW	12KW	\$20,600	String Inv	Powerwall2 +	Tools 2v	AC Coupled