

LIMITLESS 15K-LV BETA Specs



Solar Out	tput Power 15000W							
Max Allowed PV Power	17000W							
Max PV Power Delivered to Battery & AC Outputs	15000W							
Max DC Voltage	~500V							
MPPT Voltage Range	125-425V							
Starting Voltage	150V							
Number of MPPT	3							
Max Solar Strings Per MPPT	2							
Max DC Current per MPPT (Self Lim- iting)	26A							
Max AC Coupled Input (Micro/String Inverters)	24000W							

AC Output Power 15kW On-Grid & Off-Grid

120/240/208V Split Phase								
15000W 62.5A-L (240V)								
12000W 50A-L (240V)								
24,000VA L-L (240V)								
TBD								
Yes - 12								
60/50Hz								
48000W 200A L-L (240V)								
24000W 200A L-L (120V)								
96.5% (Peak 97.5%)								
TBD								
Limited to Household/Fully Grid-Tied								
Transformerless DC								
5ms								
+/- 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 — 59.0V
Continuous Battery Charging Output	250A
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	101 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

Protections & 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, 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
300A 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 <i>AC Efficiency</i> @ 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
6000cycles +\$13K	20KWh	~	~	~	~	~	<	~	×	10 yr	<	5ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	250A	M06	24KW	12KW	15KW	16KW	TBD		Sol-Ark 15K		
6000cycles +\$13K	20KWh	~	~	~	×	×	<	~	~	10 yr	<	4ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	185A	60W	16KW	9KW	9KW	12KW	\$6,900		Sol-Ark 12K		
+\$13K	20KWh	Ý	×	~	Ý	×	×	Х	Ý	5/10 yr	~	4ms	7%	96.5%	95.5%	96.0%	97.5%	touch	color	185A	60W	16KW	8KW	8KW	9KW	\$6,100		Sol-Ark 8K Sol-Ark 5K		DC Trans
+\$13K	20KWh	Ý	Ý	Х	Ý	×	Х	Х	Ý	5 yr	×	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
+\$13K	18KWh 3500c	Ý	\checkmark	×	Ý	Х	Ý	Х	Х	10 yr	Ý	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	Ý	Ý	~	Х	Х	×	Ý	Ý	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	
3000c +\$15K	18KWh	Х	Х	~	Х	Х	X	Ý	\checkmark	10 yr	Ý	20ms	19%	95.5%	90.0%	90.0%	91.0%	Text		120A	200W	13KW	2x5.5KW	2x5KW	2x6KW	\$6,200	2xH5001	(Darfon)	Panasonic	
6000cycles	21.0KWh	Ý	Ý	Ý	Х	Х	Х	Ý	Ý	10 yr	Ý	2000ms	13%	97.0%	95.0%	95.0%	92.0%	Х		N/A		8.8KW	2x3.8KW	10.4KW	10.4KW	\$28,700	+36xIQ7P	2x10	Enphase	AC C
3500cycles	28KWh	Ý	Ý	×	Х	Х	~	×	Ý	10 yr	~	2000ms	13%	97.0%	95.0%	95.0%	92.5%	Х		N/A	78W	14KW	2x5KW	2x5KW	12KW	\$19,400	String Inv	Powerwall2 +	Tesla 2x	AC Coupled