SIMPLIPHI YOUR POWER WITH ACCESS to a fully integrated energy storage & management solution with Sol-Ark equipment

APPLICATIONS

SIA (Standard Interconnection Agreement) customers: AccESS allows for solar PV power to be stored in batteries for a backup power source, or for self-consumption during evenings or other set times.

NEM (Net Energy Metering) customers: Add energy storage to an existing net-metered solar array for standby power or energy arbitrage purposes.

Off-grid customers: Up to 12 kW Solar MPPT combines power generation and energy management in a single package.

Disaster recovery customers: Reliable, 98% efficient, non-toxic backup power in the event of a power outage.

SPECIFICATIONS	AccESS Sol-Ark-8K-15.2kWh	AccESS Sol-Ark-12K-22.8kWh		
General				
Dimensions	29.5" W x 76"H (w/feet) x 20" D / 75 cm W x 193 cm H x 51 cm D			
Weight	600 lbs. (270 kg.) w/o batteries			
Enclosure Rating	NEMA 3R Outdoor Rated			
Operating Temperature	-4°F to 122°F (-20°C to 50°C)			
Mounting	Free-standing or Pad-mounted			
Enclosure Warranty Period	2 years			
Certifications	UL1741SA Rule 21, HECO Rule 14H, PREPA approved and Rapid Shutdown compliant Included batteries ETL certified and certified to UL 1973			
Inverter				
Sol-Ark	Sol-Ark 8K	Sol-Ark 12K		
Application	On or Off-Grid	On or Off-Grid		
AC Connections	1 Bi-Directional Grid Port (50A double-pole), 1 Generator Port (40A double-pole), 1 UPS Load Output (50A double-pole)			
Output Frequency (selectable)	60 Hz or 50 Hz			
Output Voltage	L-N: 120VAC; L-L: 240VAC L-L: 2	208VAC (2/3 phases) 230VAC		
Off-Grid Output Power System	8 kW Continuous	12 kW Continuous		
Solar PV Continuous Power	9.5 kW	12 kW		
Inverter AC Continuous Power	8 kW	9.6 kW		
Inverter Battery Continuous Power	8 kW	8 kW		
Max Output Charging Current	190 ADC	190 ADC		
CEC Weighted Efficiency	96.5%	96%		
Warranty Period	5 yr standard / 10 yr optional extended	10 yr standard		
Parallel Stacking	No	Yes (needed for true 3 phase power)		
Other Features	EMP hardened upon request (against Nuclear EMP and Solar Flare), Smart Load capabilities (CTs included)			



SPECIFICATIONS	AccESS Sol-Ark-8K-15.2kWh	AccESS Sol-Ark-12K-22.8kWh			
Solar PV					
DC Coupled					
Sol-Ark Dual MPPT	1 - 4 PV String Inputs (2 max per MPPT)	1 - 6 PV String Inputs (3 max per MPPT)			
Max Connected PV Power	11 kW (6 kW max per MPPT)	16.5 kW (8 kW max per MPPT) 12 kW max simultaneous utilization			
Min PV Array Starting Voltage	175 VDC	150 VDC			
Max Open Circuit PV Array Voltage	500 V _{oc} per PV String	450 V _{oc} per PV String			
MPPT Voltage Range	150 – 425 VDC				
Max Array Short Circuit Current	18A per MPPT	20A per MPPT			
AC Coupled					
Max AC Coupled Input	7 kW (string or micro-inverters)	7.6 kW (string or micro-inverters)			
DC & AC Coupled					
Max Combined Solar Input (DC + AC)	13 kW	16.5 kW			
Best Combined Input Combination	3 kW AC + 10 kW DC	3 kW AC + 12 kW DC			
Good Combined Input Combination	4 kW AC + 9 kW DC	4 kW AC + 11 kW DC			
OK Combined Input Combination	5 - 7 kW AC + 8 - 6 kW DC 2 kW AC + 11 kW DC	5 - 7.6 kW AC + 9 - 7 kW DC 1 kW AC + 15 kW DC			

SPECIFICATIONS	AccESS Sol-Ark-8K- 15.2kWh	AccESS Sol-Ark- 12K-22.8kWh		
Other Features				
Internet Connected Computer or Phone App	SmartESS Monitor	PowerView ES Monitor and Programming		
Automatic Generator Start	Two-Wire Automatic Generator Start			
Battery				
SimpliPhi Power	(x4) PHI 3.8 kWh-48V	(x6) PHI 3.8 kWh-48V		
Rated kWh Capacity @ C/2	15.2 kWh	22.8 kWh		
Usable kWh Capacity @ 80% DoD	12.16 kWh	18.24 kWh		
Max Combined Output Power	7.6 kW DC	11.4 kW DC		
Max Combined Charge Current	150 ADC	225 ADC		
Charging Temperature	32°F to 120°F (0°C to 49°C)			
Depth of Discharge	Up to 100% DoD			
Round Trip Efficiency	98%			
Cycle Life	10,000+ cycles (@ 80% DoD)			
Warranty Period	10 years			



