



# GroundArk

All in One Energy Storage System



## Plug & Play

Plug & Play stackable design, 10 minutes fast commissioning



## Active Safety

AFCI active arcing protection



## High PV acceptance

40~600Vdc, 2X of rated power input



## More Options

3\*5.12kWH battery module + Optional battery stack

## ALL IN ONE ENERGY STORAGE SYSTEM

MODEL	GroundArk-5LV1	GroundArk-5LV2	GroundArk-5LV3
<b>PV Specifications</b>			
Max. PV input power	11000W		
Nominal DC voltage/ Voc	360Vdc/600Voc		
Start-up/ Min. operation voltage	50Vdc/40Vdc		
No. of MPPTs/ Strings	2/1		
Max. PV input/ Short circuit current	16A/ 20A		
<b>Input/ Output (AC)</b>			
Max. AC input power from grid	11000VA		
Rated/ Max. AC output power	6000W/6000VA		
Rated AC output current (at 230V)	26.1A		
Max. AC output current	27.3A		
Rated AC voltage	220V/230V/240V		
AC voltage range	154V~276V		
Rated grid frequency	50Hz/60Hz		
Grid frequency range	45~55Hz/ 55~65Hz		
Harmonic (THD)	< 3%		
Power factor at rated power	> 0.99		
Adjustable power factor	adj.0.8.overexcited/leading to 0.8 underexcited/lagging		
Grid type	Single phase		
Rated output power for backup load	6000W		
Frequency range in off grid mode	50Hz/60Hz(±0.5%)		
<b>Battery Data</b>			
Rate voltage(Vdc)	51.2		
Cell combination	16S1P*1	16S1P*2	16S1P*3
Rate capacity(AH)	100	200	300
Energy storage(KWH)	5.12	10.24	15.36
Cycle life	6000 cycles @80% DOD, 0.5C		
Charge voltage	57.6V		
Max. charge/discharge current(A)	100		
Discharge cut-off voltage(V DC)	43.2		
Charge cut-off voltage(V DC)	58.4		
<b>Enviornment</b>			
Charge temperature	0°C to 55°C@60±25% Relative Humidity		
Discharge temperature	-20°C to 55°C@60±25% Relative Humidity		
Storage temperature	-20°C to 55°C@60±25% Relative Humidity		
<b>Mechanical</b>			
IP class	IP65		
Material system	LiFePO4		
Case material	Metal		
Case type	All in One Stack		
Dimensions L*W*H(mm)	640*205*1008	640*205*1350	640*205*1692
Package dimension L*W*H(mm)	760*725*345+760*335*450*1	760*725*345+760*335*450*2	760*725*345+760*335*450*3
Net weight(kg)	25+46*1	25+46*2	25+46*3
Gross weight(kg)	30+51*1	30+51*2	30+51*3
<b>Communication</b>			
Protocol(Optional)	RS485/RS232/WLAN Optional		
<b>Certificates</b>			
System	UN38.3,MSDS,EN,IEC,NRS,G99		
Cell	UN38.3,MSDS,IEC62619,CE,UL1973		