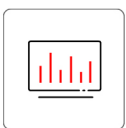


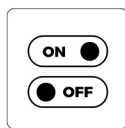
# All-In-One Hybrid System 510

## YOUR ALMIGHTY KNIGHT

This residential ESS is with 3.6/5kW hybrid single-phase inverter and 10kWh battery module. This product can capture more precise data for stricter VPP requirements. Also, in off-grid scenario, this one has better performance and can work parallel.



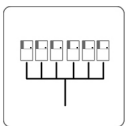
Load Detection <10W



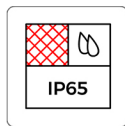
UPS Ability, On/Off  
Switch < 10ms



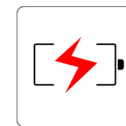
24/7 App  
Monitor & Control



Max. 6PCs Parallelable



IP65 Waterproof



Wide DC Voltage  
180-550V

# All-In-One Series

Inverter Model	INV-SPH3.6K	INV-SPB5K	INV-SPH5K
<b>PV INPUT</b>			
Max. PV Input Power	7.36kW		10kW
PV Input Voltage	580V		580V
MPPT Range	100-550V		100-500V
Max. Input Current	15A/15A		15A/15A
Max. Short Circuit Current	18.75A/18.75A		18.75A/18.75A
MPPTs	2		2
Strings per MPPT	1/1		1/1
<b>AC PORT</b>			
Rated Grid Output Power	3.68kVA	5kVA/4.6kVA(DE)	5kVA/4.6kVA(DE)
Max. Grid Input Power	7.36kVA	10kVA	10kVA
Rated Grid/Backup Voltage		230Vac	
Rated Grid/Backup Frequency		50/60Hz	
Max. Backup Power	7.36kVA/7.36kW	10kVA/10kW	10kVA/10kW
THDi		<3%	
THDv		<3% (Linear Load) / <5% (Non-Linear Load)	
DCV		100mV	
Crest Ratio		3:1	
Transfer Time		<10ms	
<b>EFFICIENCY</b>			
Max. Efficiency	97.30%		97.30%
Round Trip Efficiency	90.00%	90.00%	90.00%
<b>GENERAL DATA</b>			
Operating Temperature Range		-20-60°C	
Topology		Transformerless	
Dimensions (W x H x D)		590 x 405 x 205 mm	
Weight	19.5KG	18KG	19.5KG
Load Monitoring		Meter / CT / Backup Box	
External Communication		RS485/Wi-Fi/4C/Ethernet	
Grid Regulation		CEI 0-21, VDE 4105-AR-N, VDE 0126-1-1, EN 50438, G99, G100, AS4777.2 NRS 097, EN 50549, C10/C11, UNE, UTE, NCRfC/PTiREE	
Safety Regulation		IEC 62109-1&2, IEC 62477	
<b>Battery Model</b>		<b>BAT-10.1P</b>	
Battery Type		LFP	
Battery Capacity		10.1kWh	
Usable Capacity		9.6kWh	
Depth of Discharge (DoD)		95.00%	
Nominal Battery Voltage		96V	
Operating Voltage Range		90-108V	
Max. Charging Current		52.5A	
Max. Discharging Current		52.5A	
Operating Temperature Range		-10-50°C	
Cycle Lifetime		8000	
Parallel		1-6	
Dimensions (W x H x D)		590 x 750 x 205 mm	
Weight		90KG	
Communication		CAN / RS485 (Optional)	
Safety Regulation		IEC 62619, IEC 62040	
Transportation		UN38.3	
<b>SYSTEM</b>			
Operating Altitude		≤4000m	
Relative Humidity		0-95% (No Condensing)	
Protection Degree		IP65	
Cooling		Nature Convection	
Noise		<30dB	
Warranty		5 Years / 10 Years (Optional)	
EMC		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN61000-6-4	
<b>Note: Specifications are subject to change without advance notice.</b>			