

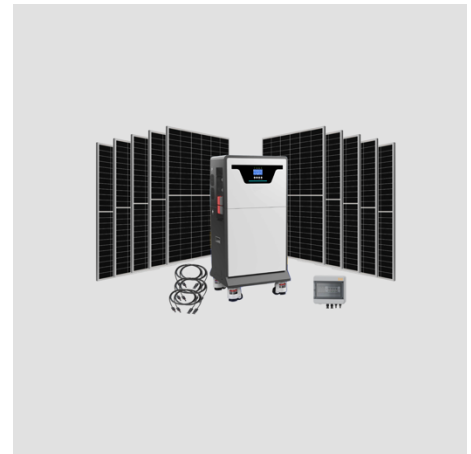
# 5,4 kWp Scalable Solar Bundle Grow 1.12

Smart energy one-stop solution

This off-grid solar system with 5,4 kWp and a 16 kW battery storage system is a sustainable and intelligent energy storage solution for increasing energy efficiency in your home.

By integrating advanced storage features, the system allows homeowners to optimize their energy consumption, reduce their reliance on the grid or generators, and significantly lower their energy costs.

Our complete solution includes all necessary components such as an inverter, a 16 kW battery storage system, 12 solar panels with 5,4 kWp, a junction box, grounding for the solar array, and all required solar cables. Solar systems with battery storage offer households a reliable and environmentally friendly way to manage energy, resulting in significant savings on electricity or generator fuel. This solar package is ideal if you plan to expand your system later. This solar system allows you to expand up to 11 kWp with additional solar panels.



## Technical description:

<b>Solar generator</b>	WB-RPS 11+16	<b>Peak efficiency (Battery mode):</b>	>94% battery mode >99% line mode
<b>Operating environment temperature:</b>	0°C~40°C	<b>Transfer time:</b>	10ms
<b>Storage environment temperature:</b>	-15°C~60°C	<b>Dual output function:</b>	yes
<b>Environment humidity:</b>	20%~95%	<b>Max. main output power:</b>	11.0KVA/11.0KW
<b>Noise emission:</b>	<50db	<b>Max. second output power:</b>	5.5KVA/5.5KW
<b>Cooling mode:</b>	Active cooling	<b>Battery</b>	
<b>Ingress protection:</b>	IP 21 (Indoor use)	<b>Battery voltage:</b>	51,2Vdc
<b>AC Input</b>		<b>Battery energy:</b>	16,08 kWh
<b>Rated input voltage:</b>	208/220/230/240VAC	<b>Cell technology:</b>	LiFePO4 (Lithium iron phosphate)
<b>Voltage range:</b>	170~264VAC(for ups mode), 90~280VAC (for home appliances)	<b>Fully charging voltage(FC):</b>	58.4 Vdc
<b>Frequency range:</b>	40~70Hz (Auto sending)	<b>Fully discharging voltage(FC):</b>	41.6 Vdc
<b>Charging current range (AC):</b>	2~120A	<b>Cycle life:</b>	≈ 6000 Cycles @ 80%
<b>Max. input current (AC):</b>	50A	<b>Product general data</b>	
<b>PV Input</b>		<b>Solar panel typ:</b>	Monocrystalline silicon, max. 450 Wp
<b>Solar charging type:</b>	MPPT	<b>Color:</b>	Powerstation - white / Panel frame in natural aluminum
<b>PV max. input power:</b>	11 kWp (5,5 kWp per string)	<b>Main dimensions powerbox:</b>	H 550 x W 1273mm x D 361 mm
<b>MPPT tracking voltage range:</b>	60-500 VDC	<b>Main dimensions solar panel:</b>	H 1762 x W 1164 x D30 mm
<b>Max. PV input voltage:</b>	500 VDC	<b>Weight powerstation:</b>	156 kg
<b>PV charging current range:</b>	2~160A	<b>Weight each solar panel:</b>	24,6 kg/per pcs.
<b>Max. charging current:</b>	160A	<b>Installation powerbox:</b>	Floor standing
<b>Output</b>		<b>Installation solar panels:</b>	on our mounting systems
<b>Rated output voltage:</b>	220~240V± 5%	<b>Mounting systems:</b>	will be charged separately
<b>Output frequency:</b>	50/60Hz ± 1%,	<b>Wiring:</b>	all solar cables included
<b>Peak power:</b>	11kW	<b>Earthing:</b>	will be charged separately
<b>Overload capacity (Battery mode):</b>	5.5s@≥140% load 10.5s@100%-140% Load	<b>Scalability:</b>	Up to 11 kW

Due to the complexity of the numerous possible combinations of inverters, batteries, and solar panels, the specified technical parameters, including the performance parameters, are typical values. The actual values of specific products in specific configurations may differ from these typical values. The information and diagrams contained in this document do not constitute an offer or a contractual obligation. Product parameters are subject to change due to technical innovations and are subject to change without prior notice. We manufacture in accordance with DIN, EN, VDE, and CE regulations.