



# Kehua SPH – Best System for Your Energy Independence



## User friendly

- Easy installation
- Ultra silent design, noise < 25dB
- Multiple battery configuration, support different battery types
- Flexible application for either new installation or retrofit.



## Efficient

- Maximum efficiency up to 97.8%
- Super wide MPPT range: 125Vdc – 580Vdc



## Reliable

- Water and dust proof (IP 65), OK for outdoor use
- Cutting edge design and technology
- High quality components maximize service life



## Intelligent

- Full automatic control, minimized daily operation
- APP available for monitoring and control
- Seamless transfer makes power outage un-realizable



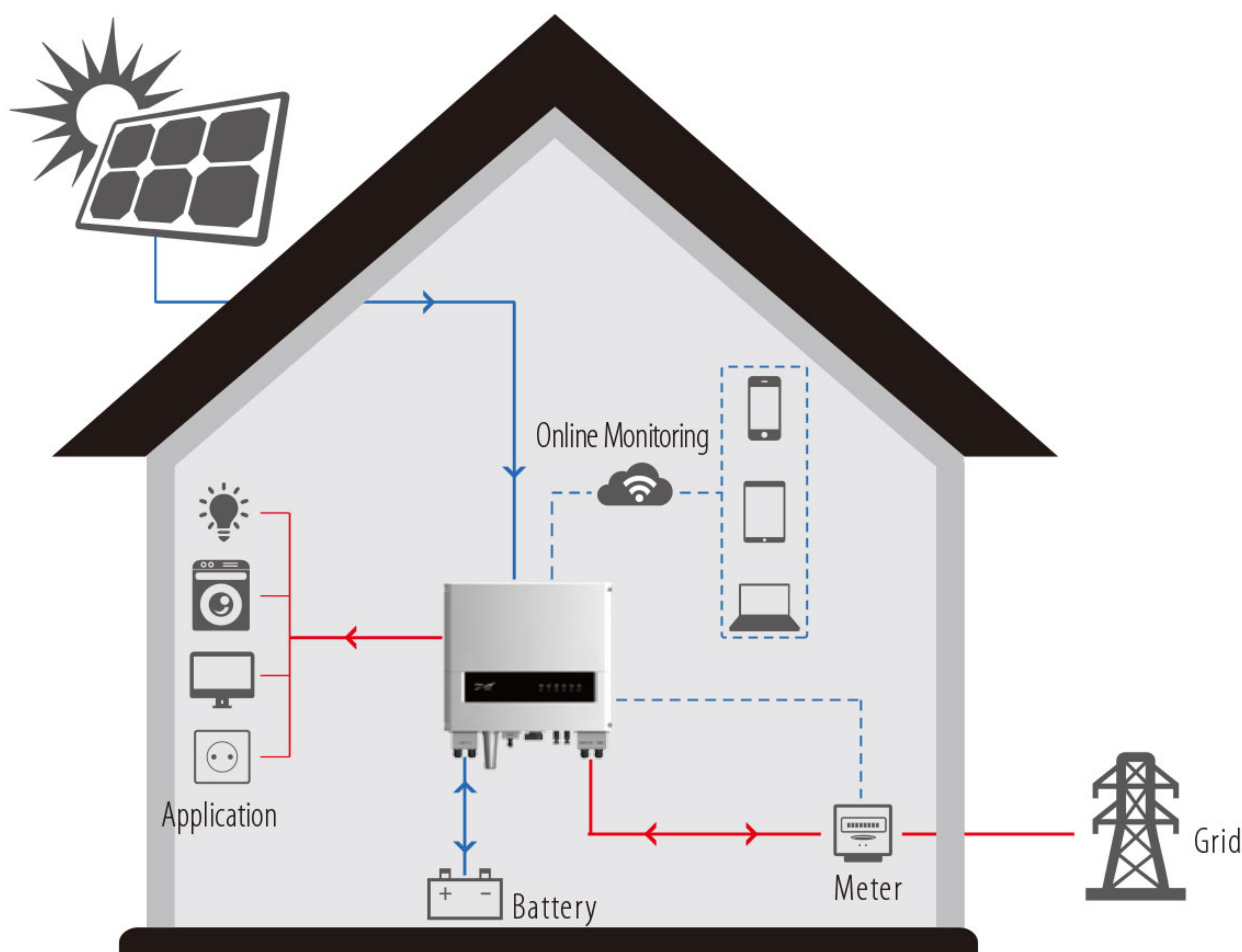
## Battery

- Easy compatible with Lithium-ion, Pb, Pb-C, Flow Battery etc.
- Wall mounted and rack-mounted optional



## Option

- CT or Smart Meter increase power control precision
- GPRS



## Off-grid Application Compatible

In addition, SPH can be installed in a completely off-grid application when no grid power is available; you can always be served by our system no matter in city or remote areas.

## Power Export Control

SPH system gives you the right to adjust you system export power. If energy back feed is prohibited, system output will be adjusted according to load status and restrict power send to grid.



# Technical Specification

Items	SPH3600-BL	SPH5000-BL
<b>PV Input</b>		
PV Max Power (W)	4000	6500
Max Voltage (Vdc)	600	
MPPT Range (Vdc)	125~ 580	
Max Input Current (Adc)	11x2	
MPPT Number / Strings	2/2(can be parallel)	
<b>On-grid Output</b>		
Rated Power (W)	3600	5000
Rated Output Voltage (Vac)	220/230/240	
Grid Voltage Range (Vac)	184~265	
Grid Frequency Range (Hz)	47.5~ 52.5 or 57.5~ 62.5	
Rated Output Current (A)	16	22.7
Power Factor	> 0.99	
Max Efficiency	97.00%	97.80%
Europe Efficiency	96.00%	97.20%
THDi (%)	<2%(Full load)	
<b>Battery Inverter (Emergency Mode)</b>		
Rated Output Voltage (Vac)	220/230/240	
Output Frequency (Hz)	50(60)±0.5	
Output Power (KW/KVA)	2500	
Transfer Time (ms)	6 ms (Typical)	
Voltage Harmonic(%)	<2% (Linear load)	
<b>Charge-Discharge</b>		
Nominal Voltage (Vdc)	48	
Max Charging Power (W)	2500 (Settable)	
Max Charging Current (A)	52 (Settable)	
Max Discharging Power (W)	2500	
Max Discharging Current (A)	52	
Battery Type	Lithium / Pb-C / Lead acid	
<b>System</b>		
Installation	Wall mounted	
Ingress protection	IP65	
Isolation method (solar)	Transformerless	
Isolation method (battery)	HF	
Cooling	Natural cooling	
Noise emission (dB)	<25	
Display	LED/APP	
Ambient humidity	0 ~ 90% , non condensation	
Temperature (°C )	-25°C ~ +60°C	
Operation Altitude	0 ~ 3000m	
On-grid standard	VDE0126-1-1, VDE-AR-N4105,G83/2, G59/3, AS4777.2/3, ERDF, CEI 0-21	
Safety	IEC62109-1, IEC62109-2, AS62040-1-1	
EMC	EN61000-6-3, EN61000-6-2	
Communication interface	RS485(Modbus) / WiFi / DRM	
Accessories	CT, Smart meter (Optional)	
Dimension (W×H×D)(mm)	480 × 420 × 185	
Weight (kg)	25	

· Specifications are subject to change without prior notice.

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