

## ALL-IN-ONE Solution for Split Phase



### Home Energy Management Center & Cluster Control

The center integrates power generation, energy storage, power consumption, and grid dispatching management system for real-time monitoring and 100% accurate control of household energy.

### Independent from the Grid

Once the power grid is an outage, the system switches from on-grid to off-grid mode automatically, meanwhile, the solar continues to charge the battery to make it an independent grid system.

### Backup Power Supply, 24 Hours Uninterrupted Power

The inverter is designed with an optimized algorithm and strong discharge capability. In the event of a grid failure, the system can automatically switch and maintain continuous back-up power supply, UPS function, less than 10 milliseconds to achieve non-inductive switching.

# Hyper Series Single Phase

## Easy to Use

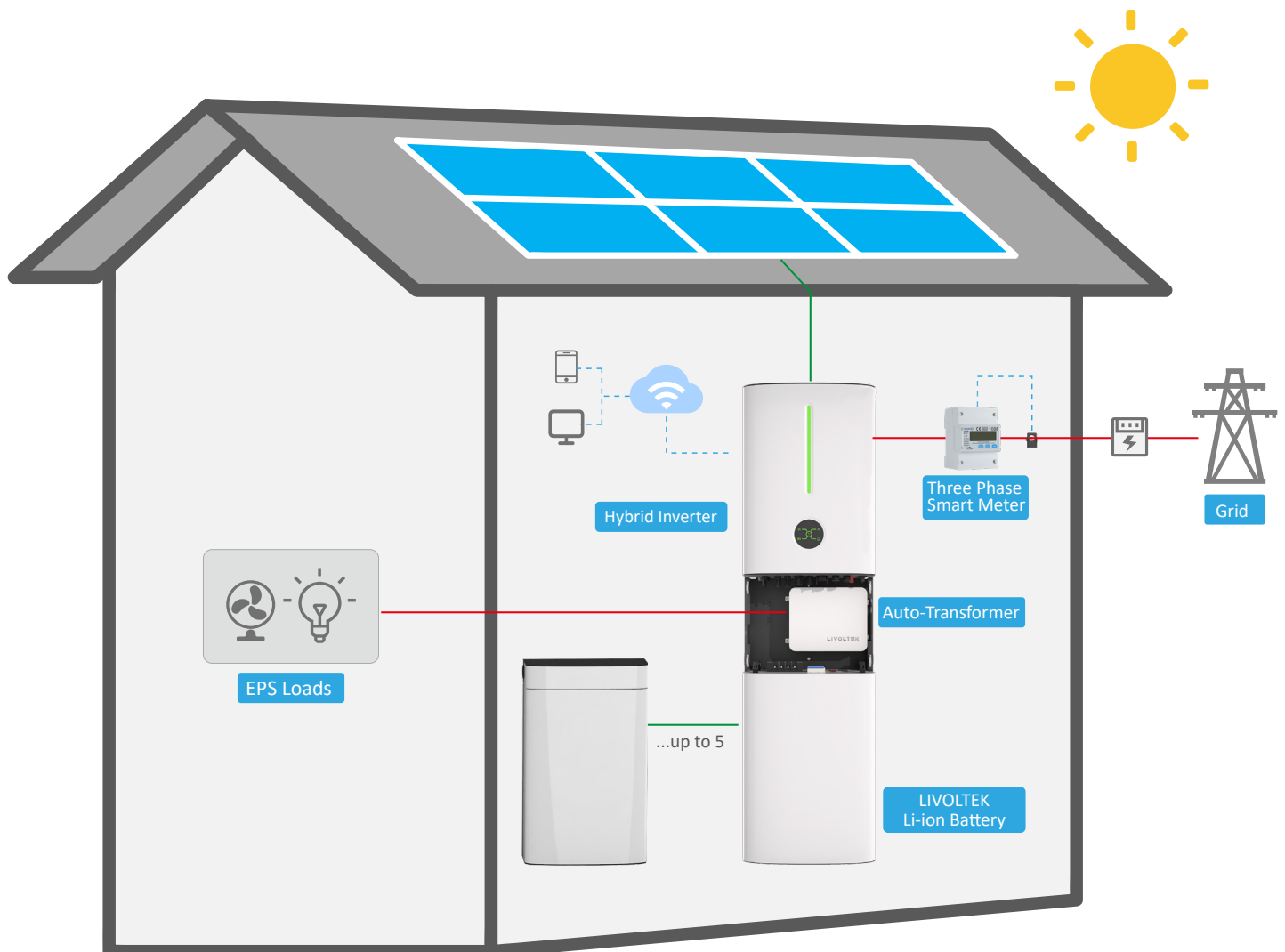
- Play & plug for time-saving installation
- Modular design, easy and convenient to expansion
- One-click configuration and touch free commissioning with smartphone

## Flexible Application

- Power Non-Critical Loads and Critical Loads
- Flexible configuration of lithium or Lead-acid battery
- Optimize energy consumption for time of use rates or demand charges

## Smart Management

- High self-consumption with optimized built-in metering chip
- 24-hour intelligent online monitoring and remote control
- Integrated battery management and customized control





# Hyper Series Single Phase

## Hyper-5000

Model	Hyper-5000
Max. PV Input Power	7500Wp
Max. PV Input Voltage	600V
Nominal DC Input Voltage	360V
MPPT Voltage Range	125~550V
No. of MPPTs/Strings per MPPT	2 / 1
Max. Input Current	14/14A
Max. Short Circuit Current	17.5/17.5A
<b>AC Output @ Grid</b>	
Nominal AC Power	5000W
Max. Apparent Output Power	5500VA
Nominal AC Voltage	240V split-phase; 208V & 240V single phase
Nominal AC Voltage Range	186~290V
AC Frequency	50Hz/60Hz $\pm 5$
Max. AC Current	21.7A
THDi, Rated Power	<3%
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)
<b>EPS Output @ Off Grid</b>	
Nominal EPS Power	5000W
EPS Peak Power	1.1 x Pnom, 10 sec; 1.5 x Pnom, 1 sec
Nominal Output Voltage	220V/230V
Nominal Frequency	50Hz/60Hz
Nominal Output Current	21.7A
THDv(@Linear Load)	< 3%
<b>Battery Data</b>	
Battery Type	Lithium
Nominal Battery Voltage	48V
Max.Charge/Discharge Current	100A
Communication with BMS	CAN
<b>Efficiency</b>	
Max. Efficiency	97.8%
Euro Efficiency	97.4%
<b>General Data</b>	
Dimension (W*H*D)	415*625*155mm
Weight	30KG
Mounting Method	Wall-mounting Bracket
Protection Rating	IP65
Cooling	Natural Convection
Operating Temperature Range	-25℃~+60℃ (>45℃ Derating)
Max. Operating Altitude	2000m
Noise	<25dB
Relative Humidity	0~100%, No Condensation
Display	LED & APP
Communication	RS485 for Parallel/EV Charger, CAN for BMS, USB for Wi-Fi, CT

# Low-voltage Storage Battery

## BLF51-5



- Low voltage system with LFP batteries
- High level protection ensure indoor/outdoor use
- Modular design makes it easy to install and commission
- High efficiency and 90% DoD ensure higher PV self-consumption
- Flexible and parallel expansion to meet increasing storage requirement

Model	BLF51-5
<b>Electrical Data</b>	
Cell Type	LFP
Total Energy	5kWh
Max. Depth of Discharge	90%
Recommended Depth of Discharge	80%
Nominal Voltage	51.2V
Operating Voltage Range	40-58.4V
Nominal Capacity	100Ah
Max. Charge Current	50A
Max. Discharge Current	100A
Max. Parallel Number	5 Units
<b>General Data</b>	
Mounting Information	Wall-mounted
Communication	CAN/RS485
Operating Temperature	0~45℃ Charge/-10~50℃ Discharge
Dimension (W*H*D)	415*665*165mm
Weight	45KG
Ingress Protection	IP21

# LIVOLTEK Auto-transformer

## AC1-ATF.R210

Model	AC1-ATF.R210
<b>Electrical Output</b>	
Rated Output Power	5000VA/W
Peak Output Power	5500VA for 10s
Rated Output Voltage	120V/240V Split Phase
Rated Output Frequency	50/60Hz
Max.Continuous Output Current/Phase(@120V)	21.7A
Split Phase Imbalance(@Rated Power)	Yes, up to 21.7A difference between phases
Thermal Protection	Yes
<b>General Data</b>	
Dimension (W*H*D)	250*205*80mm
Weight	12.7Kg
Protection Rating	NEMA 2
Operating Temperature Range	-20℃ ~ +60℃
Installation	Wall Mounted



- Compatible with Livoltek Hybrid Inverter
- Supports Split Phase Output
- Features Temperature Monitoring and Protection
- Features Output Monitoring per Phase

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