

Your Renewable Energy Solutions Partner

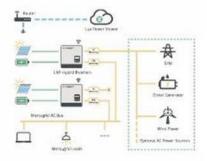
ATLAS

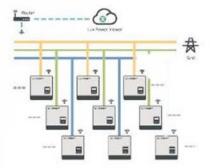
How Hybrid inverters work for you

System Connection

A newly designed solar and energy storage hybrid inverter, installed in on-grid solar, offgrid solar and back-up systems.

LXP Hybrid enables a programmable and schedulable smart solar energy storage system to help increase your solar energy self-consumption rate, protect your home appliances from grid outage, and balance your energy usage strategy to save energy bill.





Parallel Connection

Paralleling LXP inverters in one phase to extend the single phase system capacity for either hybrid or AC coupled energy storage applications.

Paralleling LXP inverters (single phase inverters) to build a three phase system for either hybrid or AC. coupled energy storage applications.

Smart paralleling algorithm enable multiple configurable working modes under on-grid, off-grid or micro-grid applications.

UP institution (AP ACS Exercises

Hybrid Series Inverter ATL12KW2897-22

ATLAS

ATL12KW2897-22 Hybrid Inverter

- 12kW EPS output
- 4 Units Paralleling
- AC Coupling Function
- 3 MPPT input for max input of 18kW
- Separated Generator input
- 200A AC Pass through Current
- **PV Module Monitoring**
- Peak Shaving Function
- Color LCD Touch screen 10 Year Warranty



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Specifications	
Battery Parameters	ATL12KW2897-22
Compatible Battery Type Nominal battery Voltage Battery Voltage Range Maximum Charging/Discharge Current Maximum Charging /Discharging power	SLA/Lithium LiFeP04 48V 40-60V 250A/250A 12000W
Input DC PV Side	
Max DC Input POWER FOR Single MPPT Max PV Input Voltage DC Input Voltage range Nominal DC Input Voltage Full Power MPPT Voltage Range Max DC Input current MPPT Number / Strings per MPPT	12000 W/7000W/7000W 18000W 100V-600V 360V 230-500V 25A/15A/15A 3 (2/1/1)
Output/input AC Grid	
Nominal Power Nominal AC Voltage Operating Voltage Range Max. Continuous AC Current Nominal AC Frequency	12000W 240V 208V 180V-270V 50A@240V 50A@208V 50Hz-60Hz
UPS Output-with Battery UPS Max. Output Power	12000W
UPS Nominal Output Voltage UPS Nominal Output Frequency UPS Nominal Output Current Peak Power	240V 208V 120V-240V 50Hz-50Hz 50A @240V 14kw 10mins / 16kw 5mins 20km 500m
SwitchingTime	20ms
Efficiency	99.9%
MPPT Efficiency Max. Efficiency EU Efficiency Battery Charging Efficiency Battery Discharging Efficiency	97.5% 96.5% 95% 94.5%
Protection	
Anti-Islanding Protection DC Switch Ingress Protect Degree SPD Protection AFCI RSD	Yes Yes IP65 Yes OPT OPT
General Data	
Dimensions (mm) Weight (Kg) Display Topology Ambient Temp Range Cooling Coommunication	640x490x265 42Kg Color LCD Transformer less -25 to +60 C Fan RS485/WiFi/CAN
Standards and Certifications	927 07 77 78 08 18 70 17 T
EMC Safety Standard Grid Standards	IEE1547 FCC \$00C UL1741 IEEE1547

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Hybrid Series

Hybrid Series How they Work



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Force Time

Force time use mode, where there is a big difference tariff times.

Self Consumption

This mode suits for situation where the price difference of energy is big. User can set the charging and discharging time and prority of energy use under Force Time Use mode. The user can also choose whether to charge the battery using grid power if the regulations permitted.



Under self consumption mode the energy generated by PV will be mainly used by local

excessive power will be fed back into the grid. This is the default mode which will increase the self consumption rate and reduce the energy bill significantly.

loads, and rest will be stored in the battery,

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Hybrid Series Inverter

Intelligent working Modes

- Self consumption mode for high tariff areas.
- Charge priority mode for areas where grid power is unstable
- Force charge & discharge mode for areas where tariff varies by time

Smart EPS

- Plug & Play, seamless switching under 10ms
- Sufficient backup power for emergency use

Easy to use with ATLAS Batteries

- Remote upgrade BM5 firmware
- Wide range of compatible battery brands
- Wake up lithium battery from sleep mode
- Essential info uploaded to Lux server for quick ESS diagnosis

 Battery sharing with multi-inverters in single phase or three phase

Advanced Parallel

- Up to 10 units parallel, expandable to 120kW
- Single phase and unbalanced three phase paralleling.

Key Features

- Light, fast & easy installation
- Free & handy monitoring on mobile / PC
- Multi phases output on different hybrid models
- Generator interface available