

LXP 3600 ACS INVERTER

TECHNICAL SPECIFICATION SHEET

QUICK SPECS

LXP 3600 ACS	
Rated Output Power (W)	3600W
System Type	AC-coupled (retrofit)
Rated Battery Voltage (V)	48/51.2
Battery Type	Lithium-ion / Lead-Acid
Max. Charge/Discharge Current	70A
Switching Time (UPS)	20ms
Rated Output Voltage	230V (50/60Hz)
Waveform	Sine wave
Max. AC Input Power (W)	3600
Parallel Operation	Up to 6 Units
Dimensions (W x H x D) mm	650 x 440 x 220
Weight (kg)	15.6
IP Rating	IP65
Warranty	10 years

Built for retrofit and AC-coupled energy storage systems, the LXP 3600 ACS enables existing solar installations to add intelligent battery storage with seamless switching between grid and backup power. With support for time-of-use and weather optimisation charging, parallel operation, and flexible system integration, it delivers an efficient and scalable solution for residential energy storage and backup applications.

MONITORING & INSTALLATION

- Remote monitoring via LuxpowerTek app
- RS485, Wi-Fi, and CAN communication
- Integrated battery and load breakers for simplified install

BATTERY PAIRING

The LXP 3600 ACS is designed to work seamlessly with the Fogstar Energy 48V battery range, providing reliable energy storage for retrofit and AC-coupled systems. It supports flexible configurations, making it suitable for both compact installations and larger energy setups.

Minimum Setup: Fogstar Energy 48V 5.12kWh Rack Battery

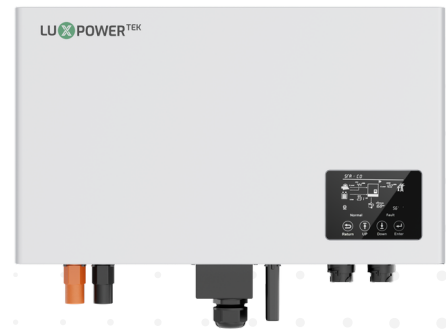
- A compact entry-level solution, ideal for basic energy storage and essential backup applications.

Recommended: Fogstar Energy 48V 10kWh

- A balanced setup offering improved storage capacity and performance, well suited to most residential systems.

Full Headroom: Fogstar Energy 48V 16.1kWh ECO / 16.1kWh IP-Rated

- Higher capacity options designed for extended runtimes and increased energy usage, ideal for larger or more demanding installations.



Battery		LXP 3600 ACS
Rated battery voltage (V)		48/51.2
Battery voltage range (V)		40 ~ 60
Max. charging voltage (V)		60
Max. charging/discharging current (A)		70
Max. charging/discharging power (W)		3600
Force wake up battery from Grid function(Y/N)		YES
Grid		
Rated AC voltage (V)		230
Rated AC frequency (Hz)		50 / 60
Rated AC output current (A)		16
Rated AC output power (W)		3600
Max. AC input current (A)		26
Power factor (PF)		0.99 (Adjustable from 0.8 leading to 0.8 lagging)
Total harmonic distortion (THDi)		< 3%
Max. continuous AC passthrough current (A)		40
UPS		
Rated output power (W)		3600
Rated output voltage (V)		230
Rated output current (A)		16
Rated output frequency (Hz)		50 / 60
Surge power (duration)		4500W, 30s
Switching time		20ms
Waveform		Sine wave
Total harmonic distortion (THDv)		< 3%
Parallel capacity		6
Efficiency		
Maximum efficiency		97.3%
Maximum charge/discharge efficiency		94.5%
Protection		
Overcurrent/overvoltage protection		YES
Anti-islanding protection		YES
AC short-circuit protection		YES
Grid monitoring		YES
AC surge protection		Type III
General		
Operating temperature range (°C)		-25 ~ 60
Storage temperature range (°C)		-40 ~ 65
Relative humidity		0 ~ 95%
Display and communication interfaces		LCD, RS485 / Wi-Fi / CAN
Cooling method		Natural cooling
Topology		Transformerless
Maximum operating altitude (m)		2000
Noise emission (dB)		25
AC connector type		YES
Standards & Certification		
IEC62109-1, IEC62040, EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011+ AC:2012, EN 61000-3-2:2014, EN 61000-3-3:2013, VDE-AR-N 4105, EN50549-1, G98, G100		