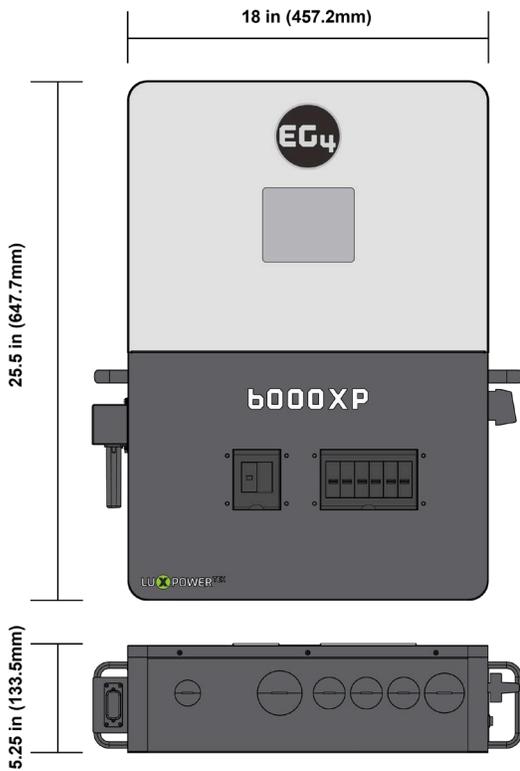


# EG4® 6000XP

## OFF-GRID INVERTER



The 6000XP is a 208/240 VAC split-phase, 48 VDC off-grid inverter/charger capable of utilizing 8kW of PV and efficiently outputting 6kW of power while also charging the battery bank.

Parallel up to 16 units for 96kW worth of output power and control multiple stations and units using the new EG4® monitoring software.

**HIGH FREQUENCY  
SPLIT-PHASE DESIGN**

**REMOTE  
ADJUSTMENTS VIA  
EG4® SOFTWARE**

**5-YEAR WARRANTY**

### ALL-IN-ONE SOLAR INVERTER

Capable of running entirely off the grid, or with grid input for supplemental charging and output power.

### 480VDC MAX

The extra high voltage enables lower cable sizing for the 2 MPPTs with recommended PV input of 8kW eliminating the need for a combiner box.

### MOUNTABLE WI-FI DEVICE

Enables wireless connection between our new monitoring platform and the 6000XP through the app or online website.

### CLOSED-LOOP COMMUNICATIONS

Able to communicate with EG4 48V batteries and other battery brands.

*\*A firmware update may be required for closed-loop communications with LifePower4 batteries.*

### HIGH FREQUENCY, SPLIT PHASE OUTPUT

Transformerless, high frequency, split-phase design allowing 120/240V with a single unit.



## TECHNICAL SPECIFICATIONS

### AC INPUT DATA

NOMINAL AC VOLTAGE	120/240VAC (L1/L2/N required)
FREQUENCY	50/60Hz
MAX. CONTINUOUS AC CURRENT	37.5A @ 240VAC
MAX. AC INPUT POWER	9000W
AC BYPASS (GRID   GENERATOR)	50A

### AC OUTPUT DATA

OUTPUT VOLTAGE	120/240VAC
OUTPUT FREQUENCY	50/60Hz
MAX. CONTINUOUS OUTPUT CURRENT @ 240V	25A
NOMINAL POWER OUTPUT	6000W
SURGE CAPACITY	12,000W for ≈3.5 seconds   11,000W for ≈5 seconds
POWER FACTOR	0.99 @ full load
REACTIVE POWER ADJUST RANGE	(-0.8) – (+0.8) leading adjustable
OPERATING FREQUENCY	50/60Hz
THD (V)	<3%
SWITCHING TIME	<15ms @ Single / <30ms @ Parallel

### PV INPUT DATA

NUMBER OF MPPTS	2
INPUTS PER MPPT	1
MAX. USABLE INPUT CURRENT	17/17A
MAX. SHORT CIRCUIT INPUT CURRENT	25/25A
DC INPUT VOLTAGE RANGE	100 – 480 VDC
UNIT STARTUP VOLTAGE	100 VDC ± 10 VDC
MPP OPERATING VOLTAGE RANGE	120 – 385 VDC
NOMINAL MPPT VOLTAGE	320 VDC
MAXIMUM UTILIZED SOLAR POWER	8000W (4000W per MPPT)
RECOMMENDED MAXIMUM SOLAR INPUT	10000W

### BATTERY DATA

TYPE	Lead-acid/Lithium	
MAX. DISCHARGE CURRENT	140A	
MAX. CHARGE CURRENT	125A**	
NOMINAL VOLTAGE	48 VDC	
BATTERY VOLTAGE RANGE	46.4 – 60 VDC (Lithium)   38.4 – 60 VDC (Lead-acid)	
REC. BATTERY CAPACITY PER INVERTER	>200Ah	
HIGH DC CUT-OFF VOLTAGE	59 VDC (Lithium)   60 VDC (Lead-acid)	
HIGH DC RECOVERY VOLTAGE	57.4 VDC(Lithium)   58 VDC(Lead-Acid)	
	LOAD<20%	44.0 VDC (Configurable)
LOW DC WARNING VOLTAGE (LEAD-ACID)	20%≤LOAD<50%	Warning Voltage @Load <20% - 1.2V
	LOAD≥50%	Warning Voltage @Load <20% - 3.6V
LOW DC WARNING VOLTAGE RETURN (LEAD-ACID)	Low DC Warning Voltage @Different Load +2V	

	LOAD<20%	42.0 VDC (Configurable)
LOW DC CUT-OFF VOLTAGE (LEAD-ACID)	20%≤LOAD<50%	Cut-Off Voltage @Load <20% - 1.2V
	LOAD≥50%	Cut-Off Voltage @load <20% - 3.6V
LOW DC CUT-OFF RETURN VOLTAGE (LEAD-ACID)	CUT-OFF VOLTAGE @LOAD <20% ≥45V	Low DC Cut-Off Voltage @load <20% +3V
	CUT-OFF VOLTAGE @LOAD <20% <45V	
LOW DC WARNING SOC		20% SOC (Configurable)
LOW DC WARNING RETURN SOC		Low DC Warning SOC +10%
LOW DC CUT-OFF SOC		15% SOC (Grid ON) (Configurable)
		15% SOC (Grid OFF) (Configurable)
LOW DC CUT-OFF RETURN SOC		Low DC Cut-Off SOC +10%
CHARGE CUT-OFF VOLTAGE		58.4 VDC
<b>GENERAL DATA</b>		
MAX. UNITS IN PARALLEL		16
INTEGRATED DISCONNECT		Yes
DC SWITCH RATING FOR EACH MPPT		Yes
DIMENSIONS		18×25.5×5.25 in (457×648×132mm)
WEIGHT		52.9 lbs. (24kg)
COOLING CONCEPT		Fan
TOPOLOGY		TL (Transformerless)
RELATIVE HUMIDITY		5-95%
ALTITUDE		<6561ft (2000m)
OPERATING TEMPERATURE RANGE		32 – 113°F (0 – 45°C)
STORAGE TEMPERATURE RANGE		5 – 140°F (-15 – 60°C)
NOISE EMISSION (TYPICAL)		<58 dB
LOCKED ROTOR AMPS (LRA)		95A
DISPLAY		LCD + LED
COMMUNICATION INTERFACE		RS485/Wi-Fi/CAN
STANDARD WARRANTY		5-year standard warranty***
PV REVERSE POLARITY PROTECTION, POLE SENSITIVE LEAKAGE CURRENT MONITORING UNIT, SURGE PROTECTION DEVICE, OUTPUT OVER-VOLTAGE PROTECTION, OUTPUT OVER-VOLTAGE PROTECTION VARISTOR		Yes
<b>EFFICIENCY</b>		
MPPT		99%
BATTERY CHARGING		93%
BATTERY DISCHARGING		93%
IDLE CONSUMPTION (STANDBY)		w/ PV (<30W)   w/ Battery (~50W)   w/ AC (<50W)*
<b>STANDARDS AND CERTIFICATIONS</b>		
UL1741		
FCC PART 15, CLASS B		
<b>INGRESS PROTECTION RATING</b>		
IP20		

\*Idle consumption value tested with constant 300 VDC PV source

\*\*115A @ 48 VDC (AC), 125A @48 VDC (PV)

\*\*\*For information regarding warranty registration on EG4® Electronics products, please navigate to <https://eg4electronics.com/warranty/> and select the corresponding product to begin the registration process.