



# Power Conversion System

WUXI LEES POWER COMPANY LIMITED

## Performance characteristics >>>

### User-friendly

- Friendly man-machine operation interface; convenient and practical operation and with function of remote data transmission at background.

### Reliable

- Modularization and string input design are adopted to reduce the series and parallel connection of batteries, which is beneficial to utilization of cascade batteries and improve system stability, which is convenient for installation and maintenance and for capacity expansion.

### Intelligent

- Support grid-connected and off-grid operation and cooperate with STS to realize automatic and seamless switching between grid-connected and off-grid status to ensure continuity of load power supply.

### Efficient

- The power factor can be adjusted arbitrarily, which can realize independent control of active power and reactive power to meet different load requirements.
- It can be adapted to a variety of batteries and implement different charging and discharging strategies for different batteries.



## Technical parameters

Model		LS-PCS50	LS-PCS100	LS-PCS150
DC(Battery)	Voltage range	600~900V		
	Max. charge/discharge	110A	220A	330A
	Max. power	55kW	110kW	165kW
AC (Grid-connected)	Rated output power	50kW	100kW	150kW
	Rated voltage	400V±15%		
	Rated frequency	50Hz/60Hz±2.5Hz		
	Rated current	72A	144A	216A
	THDi	≤3%		
	Power factor	-1~1		
AC(off grid)	Rated voltage	400V±10% (Adjustable)		
	Rated frequency	50Hz/60Hz		
	Rated current	72A (Max.79A)	144A (Max.158A)	216A (Max.237A)
	Rated power	50kW	100kW	150kW
	Max. power	55kW	110kW	165kW
	THDu	≤3% (linear)		
	Power factor	0.1 lagging~1 leading		
	Overload capability	110%: 10min 120%: 1min		
General Data	Cooling	Forced-air		
	Noise emission	≤70dB		
	Operating temperature	-20℃~50℃ (>45℃ Derating)		
	Ingress protection	IP20 (IP54 customizable)		
	Altitude	3000m (>2000m Derating)		
	Relative humidity	0~95% (non-condensing)		
	Dimension (W/H/D)	800*2200*900mm		
	Weight (kg)	950	1070	1600
Others	Max. efficiency	97.30%	97.30%	97.30%
	AC connection	3W+N+PE		
	Isolation mode	with isolation transformer		
	Protection function	under/over voltage, over-heat, Abnormal frequency, AC phase dislocation, over-current, communication malfunction, Fan Failure, Insulation impedance detection, Anti-islanding		
	Display	Touch screen		
	Communication	RS485, CAN, LAN		

### WUXI LEES POWER CO., LTD.

Add: No.312 National highway, Huishan District, Wuxi, China, 214000  
 Tel: +86-510-85168446  
 E-mail: lees@leespower.com  
 Website: www.leesenergy.com

