

LESSO

LSBH(50~70)KTL3(-E1)

Three Phase PV Inverter

>> Models:

LSBH50KTL3

LSBH60KTL3

LSBH60KTL3-E1

LSBH70KTL3-E1



Efficient

- Max. efficiency 98.7%
- String current up to 16A
- 5/6 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)

Safe

- IP66, C5 Anti-Corrosion Level
- Intelligent redundant fan-cooling
- Globally recognised branded componentry for longer life
- AFCI protection, proactively reduces fire risk

Smart

- Night SVG function
- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Scan to register on Lesso PV cloud, supports remote upgrade and control

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost
- 10/12 string inputs allow for 150%+ DC oversizing

DATASHEET	LSBH(50~60)KTL3		LSBH(60~70)KTL3-E1	
Models	50K	60K	60K-HV	70K-HV
Input DC				
Max. input voltage			1100 V	
Rated voltage		600 V		720 V
Start-up voltage			195 V	
MPPT voltage range			180-1000 V	
Max. input current	5*32 A		6*32 A	
Max. short circuit current	5*40 A		6*40 A	
MPPT number/Max. input strings number	5/10		6/12	
Output AC				
Rated output power	50 kW	60 kW	60 kW	70 kW
Max. apparent output power	55 kVA	66 kVA	66 kVA	77 kVA
Max. output power	55 kW	66 kW	66 kW	77 kW
Rated grid voltage	3L,N,PE, 220 V / 380 V, 230 V / 400 V			3L,PE, 480 V
Rated grid frequency			50 Hz / 60 Hz	
Rated grid output current	76.0 A / 72.2 A	91.2 A / 86.6 A	72.2 A	84.2 A
Max. output current	83.6 A	100.3 A	79.4 A	92.6 A
Power factor		>0.99 (0.8 leading - 0.8 lagging)		
THDi			<3%	
Efficiency				
Max. efficiency		98.7%		
EU efficiency	98.3%		98.4%	
Protection				
DC reverse-polarity protection		Yes		
Short circuit protection		Yes		
Output over current protection		Yes		
Surge protection		DC Type II / AC Type II		
Grid monitoring		Yes		
Anti-islanding protection		Yes		
Temperature protection		Yes		
Strings monitoring		Yes		
I/V Curve scanning		Yes		
Integrated AFCI (DC arc-fault circuit protection)		Yes ⁽¹⁾		
Integrated PID recovery		Optional ⁽²⁾		
Integrated DC switch		Optional		
General Data				
Dimensions (W*H*D)		691*578*338 mm		
Weight		54.5 kg		
Topology		Transformerless		
Self-consumption (night)		<1 W		
Operating ambient temperature range		-25 ~ +60°C		
Relative humidity		0-100%		
Ingress protection		IP66		
Cooling concept		Intelligent redundant fan-cooling		
Max. operation altitude		4000 m		
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530			
Safety/EMC standard		IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4		
Features				
DC connection		MC4 connector		
AC connection		OT terminal (max.70 mm ²)		
Display		LCD, Capacitive touch buttons		
Communication		RS485, USB, Optional: Wi-Fi, GPRS		

(1) Activation required.

(2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.