

# Power-Box SL7/8/10K

## Single Phase Hybrid Inverter



### KEY FEATURES



#### Flexible

- 20 A max. PV input current
- 150% PV input oversizing
- Integrated generator control



#### Safe & Reliable

- IP66 protection
- SPD Type II
- Support AFCI (optional)



#### Powerful

- Backup switch time < 10 ms
- Up to 200% peak output power
- Parallel connection (3 max)



#### Smart & Easy

- Firmware OTA updates
- 24 / 7 online monitoring
- Quick commissioning via BLE



## TECHNICAL PARAMETERS

Models	Power-Box SL7K	Power-Box SL8K	Power-Box SL10K
<b>Input (PV)</b>			
Max. PV Input Power	10500 Wp	12000 Wp	15000 Wp
Max. PV Input Voltage		600 V	
Start-up Voltage		120 V	
MPPT Voltage Range		100 ~ 550 V	
Max. Current per MPPT		20 A / 40 A	
Max. Short Circuit Current per MPPT		30 A / 60 A	
Number of MPP Trackers		2	
Number of Strings per MPPT		1 + 2	
<b>Battery</b>			
Compatible Battery		BYD Battery-Box LV 5.0+	
Battery Voltage		40 ~ 57.6 V	
Max. Charge / Discharge Current	175 A	190 A	220 A
Max. Charge / Discharge Power	7700 W	8800 W	11000 W
<b>AC Input / Output (Grid)</b>			
Rated AC Input / Output Power	7000 W	8000 W	10000 W
Max. AC Input / Output Apparent Power	7700 VA	8800 VA	11000 VA
Rated AC Input / Output Current	30.43 A	34.78 A	43.48 A
Max. AC Input / Output Current	35 A	40 A	50 A
Rated AC Voltage		230 V, 220 V / 240 V	
AC Voltage Range		230 V / 180 V - 270 V	
AC Grid Frequency		50 Hz (45 Hz ~ 54 Hz) / 60 Hz (55 Hz ~ 65 Hz)	
Power Factor		0.99, 0.8 leading ~ 0.8 lagging adjustable	
THDi		< 3%	
<b>AC Output (Backup)</b>			
Rated AC Output Power	7000 W	8000 W	10000 W
Max. AC Output Apparent Power	14000 VA, 10 s	16000 VA, 10 s	16000 VA, 10 s
Back-up Switch Time	< 10 ms	< 10 ms	< 10 ms
Max. AC Output Current	35 A	40 A	50 A
Rated Output Voltage		230 V, 220 V / 240 V	
Rated Output Grid Frequency		50 Hz / 60 Hz	
THDv		< 3%	
<b>Efficiency</b>			
MPPT Efficiency		99.9%	
Max. Efficiency		97.6%	
EU Efficiency		96.5%	
<b>Protection</b>			
Protection Class		I	
Anti-islanding Protection		Yes	
DC Reverse Polarity Protection		Yes	
Insulation Monitoring		Yes	
DC Surge Protection		Yes	
AC Surge Protection		Yes	
Residual Current Monitoring		Yes	
AC Overcurrent Protection		Yes	
AC Short-circuit Protection		Yes	
Over Voltage Category		DC: II AC: III	
Over-heat Protection		Yes	
AFCI		Yes (Optional)	
<b>General Data</b>			
Operating Temperature Range		-25 °C ~ +60 °C, > 45 °C Derating	
Relative Operating Humidity		0 ~ 95 %RH, Non-Condensing	
Operating Altitude		4000 m, > 2000 m Derating	
Cooling		Smart Fan Cooling	
Noise		< 50 dB	
Dimensions		534 mm * 440 mm * 240 mm	
Weight		32 kg	
Inverter Topology		High-frequency Isolation	
Display		LED	
Max. Parallel Quantity		3	
Communication		RS485, CAN, WIFI, LAN, Bluetooth	
Ingress Protection		IP66	
Nighttime Power		≤ 10 W	
<b>Standards Compliance</b>			
Safety / EMC Standard		IEC / EN 62109-1 / -2, EN 61000-6-1 / -3	
Grid Connection Standard		G98 or G99, EN 50549-1, NRS 097-2-1, IEC 62116, IEC 61727	