

BDH-8/10/12KSP-LB

INPUT (PV DC)		BDH-8KSP-LB	BDH-10KSP-LB	BDH-12KSP-LB
Maximum Utilized Solar Power		12000W	15000W	18000W
Rated PV Input Voltage			360V	
PV Input Voltage Range			100~600V	
MPPT Operating Voltage Range			120~500V	
Start-up Voltage			140V	
No. of MPP Trackers		2	2	3
No. of Strings per MPPT		1/1	1/1	2/1/1
Max. Input Current per MPPT		25A/25A	25A/25A	25A/15A/15A
Max. Short Circuit Current per MPPT		31A/31A	31A/31A	31A/19A/19A
Battery				
Battery Type		Lithium-ion/Lead-Acid		
Rated Battery Voltage		48V		
Battery Voltage Range		40~60V		
Max. Charging/Discharging current		167A	210A	250A
Max. Charging/Discharging power		8000W	10000W	12000W
Force wake up battery from PV function		YES		
Grid				
Rated AC Voltage		120V/240V;120V/208V		
Rated AC Frequency		50Hz/60Hz		
Rated AC Output Current		33.3A@240V/38.5A@208V	41.6A@240V/48A@208V	50A
Rated AC Output Power		8000W	10000W	12kW@240V/10.4kW@208V
Max. AC Intput Current		200A		
Max. AC Intput Power		48000W		
PF		0.99(Adjustable from 0.9 leading to0.9 lagging)		
THDi		< 3%		
AC Bypass (Grid)		200A		
EPS				
Rated Output Voltage		120V/240V;120V/208V;240V		
Rated Output Frequency		50Hz/60Hz		
Rated Output Current		33.3A@240V/38.5A@208V	41.6A@240V/48A@208V	50A
Rated Output Power		8000W	10000W	12kW@240V/10.4kW@208V
Peak Power		With PV: 8.8kW (2h),9.6kW (15 min), 10.4kW (7.5 min), 13.2kW (750ms) Without PV: 8.8kW (10 min)	With PV: 11kW (2h),12kW (15 min), 13kW (7.5 min), 16.6kW (750ms) Without PV: 11kW (10 min)	With PV: 13.2kW (2h),14.4kW (15 min), 15.6kW (7.5 min), 20kW (750ms) Without PV: 13.2kW (10 min)
Switching Time		20ms		
THDv		< 3%		
AC Bypass (Generator)		90A		
Efficiency				
Max. MPPT Efficiency		99.9%		
Max. Efficiency		97.5%		
Max. Battery Charging/ Discharging Efficiency		94.5%		
CEC Efficiency		96.5%		
Protection				
PV Reverse Polarity Protection		YES		
Over Current/Voltage Protection		YES		
Anti-islanding Protection		YES		
AC Short-circuit Protection		YES		
Ground fault monitoring		YES		
Leakage Current Protecion		YES		
AC/DC Surge Protection Type II		YES		
AFCI		YES		
RSD		YES		
DC Switch		YES		
Load Switch(Current)		200A		
Battery Switch(Current/Voltage)		2*200A/80VDC		
General				
Dimensions(W*H*D)		500*860*290mm/19.68*33.86*11.42inch		
Weight		52kg/121.2lbs		
Ingress Protection Rating		NAME 4X		
Relative Humidity		0~100%		
Operating Temperature Range		-25~60°C, >45°C derating		
Storage Temperature Range		-25~60°C		
Communication Interface		RS485/CAN/Wi-Fi		
Display		Color Touch LCD		
Cooling Method		Smart Cooling		
Topology		Transformer-less		
Altitude		<2000m		
Warranty		10 years		
Standards&Certification				

UL STD.1741,1741SA,1741SB; IEEE STD.1547,1547.1,1547a; HECO SRD-IEEE-1547.1:2020 Ed.2.0;
CSA STD.C22.2 No.107.1 and 330; UL1998:2018; 2030.5; E5000,SA17-18; PCS CRD:2019