

# BD5-10kW-RLN

North American Split-phase Inverter (Battery 48V)



**Efficient  
Higher revenue**

- Bypass current capacity up to 100A
- 4 MPP Trackers: Max. Maximum efficiency: 98.8%. CEC efficiency: 97.2%
- Support 100% unbalanced load capacity



**Intelligent  
Simple O&M**

- IP65 Protection Degree: support outdoor installation
- Battery reverse connection protection
- Automatic management of battery charge and discharge
- Support RS485/CAN/DRM (WiFi/4G optional): remote monitoring and operation via PC or mobile phones



**Flexible  
Abundant configuration**

- Parallel available
- Export control(Zero export)

	BD5KTL-RLN	BD6KTL-RLN	BD8KTL-RLN	BD10KTL-RLN
<b>Input (PV)</b>				
Max. Input Power	7.5kW	9kW	12kW	13kW
Max. DC Voltage	500V			
MPP Voltage Range	120V~ 500V			
Max. PV Input Current	12A			
Number of MPP Trackers	4			
String per MPPT	1			
<b>Output (AC)</b>				
Rated AC Output Power	5kVA	6kVA	8kVA	10kVA
Max Output Current	24A	28.8A	38.3A	47.8A
AC Output Voltage	120Vac / 240Vac (split phase), 208Vac (2/3 phase), 230Vac (single phase)			
Frequency	50Hz / 60Hz			
Power Factor	0.8 leading ~ 0.8 lagging			
THDi	<3%			
<b>Output (EPS)</b>				
Rated Output Power	5kVA	6kVA	8kVA	10kVA
Overload Capacity	125%, 60S / 150%,1S			
Backup AC Output Voltage	120Vac / 240Vac (split phase), 208Vac (2/3 phase), 230Vac ( single phase)			
Frequency	50Hz / 60Hz			
THDu	<2%			
<b>Battery</b>				
Battery Voltage Range	40V~58V			
Max. Charge Voltage	58V			
Max. Charge / Discharge Current	120A / 120A	135A / 135A	190A / 190A	210A / 210A
Battery Type	Lithium / Lead-acid			
Communication	CAN / RS485			
<b>Efficiency</b>				
Max. Efficiency	≥ 98.2%			
CEC Efficiency	≥ 97.2%			
<b>Communication</b>				
Display	LCD / Touch Screen			
Communication	RS485 / WiFi / 4G / CAN / DRM			
<b>Standard Compliance</b>				
Safety	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On Grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III, NRS			
<b>General Data</b>				
Dimensions (W x H x D)	430 x 710 x 220 mm			
Weight	41kg			
Operation Temperature	-25 °C ~ +60°C			
Cooling Method	Natural Cooling			
Protection Degree	IP65 / NEMA 3R			
Noise Emission	<25dB		<29dB	
Max. Operating Altitude	2000m			
Relative Humidity	0 ~ 95% (non-condensing)			
Topology	Transformerless			
Self-consumption	<3W			