

# BD6-12kW-RH1N

North American Split-phase Inverter (Battery > 80V)



**Efficient  
Higher revenue**

- Bypass current capacity up to 100A
- 4 MPP Trackers. Maximum efficiency: 98.2%. CEC efficiency: 97.2%
- Support 100% unbalanced load capacity
- Support full power discharge, automatic management of battery charge and discharge



**Intelligent  
Simple O&M**

- IP65 Protection: support outdoor installation
- Battery reverse connection protection.
- Support RS485/CAN/DRM (WiFi/4G optional): remote monitoring and operation via PC or mobile phones



**Flexible  
Abundant configuration**

- Compatible with lead-acid and lithium-ion batteries and other battery access.
- Export control(Zero export)

	BD6KTL-RH1N	BD8KTL-RH1N	BD10KTL-RH1N	BD12KTL-RH1N
<b>Input (PV)</b>				
Max. Input Power	7.8kW	10.4kW	13kW	15.6kW
Max. DC Voltage	500V			
MPP Voltage Range	125V~500V			
Max. PV Input Current	12A			
Number of MPP Trackers / String per MPPT	4 / 1			
<b>Output (AC)</b>				
Max. Output Current	27.3A	36.4A	45.4A	50A
Rated AC Output Power	6kVA	8kVA	10kVA	11.4kVA
AC Output Voltage	240V, L+N+PE			
Grid Voltage Range	211V~264V			
Frequency	50Hz / 60Hz			
Power Factor	0.8 lagging ~ 0.8 leading			
THDi	< 3%			
<b>Output (EPS)</b>				
Rated Output Power	6kVA	8kVA	10kVA	12kVA
Rated Output Voltage	220V~240V / 110V~120V			
Overload capacity	110%, 30S / 120%, 10S / 150%, 0.02S			
Automatic Switching Time	< 20ms			
Frequency	50Hz / 60Hz			
THDu	< 2%			
<b>Battery</b>				
Battery Voltage Range	85V~400V			
Max. Charging Voltage	400V			
Max. Charge / Discharge Current	80A / 80A			
Battery Type	Lithium / Lead-acid			
Communication	CAN / RS485			
<b>Efficiency</b>				
Max. Efficiency	≥ 98.2%			
CEC Efficiency	≥ 97.2%			
<b>Communication</b>				
Display	LCD			
Communication	Standard: RS485 / CAN / DRM Optional: Wifi / 4G			
<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			
<b>General Data</b>				
Dimensions (W x H x D)	530 x 660 x 200 mm			
Weight	32kg			
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			
Standby Power Consumption	< 2.5W (With the battery < 5W )			