

# BD3-6kW-RL1

## Single Phase Hybrid Inverter



### Efficient Higher revenue

- Maximum efficiency: 97.6%
- Input power source priority can be set by users



### Intelligent Simple O&M

- IP65 Protection Degree: 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

- Support automatic battery switch
- Support diesel generator as input source
- Parallel available, intelligent BMS management
- Export control (Zero export)
- Compatible with lead-acid and lithium-ion batteries

	BD3KTL-RL1	BD3K6TL-RL1	BD4KTL-RL1	BD4K6TL-RL1	BD5KTL-RL1	BD6KTL-RL1
<b>Input (PV)</b>						
Max. PV Input Power	4.6kW		6kW		7kW	
Max. PV Input Voltage	550V					
MPP Voltage Range	125V ~ 500V					
Max. PV Input Current	14A					
Number of MPP Trackers / String per MPPT	2 / 1					
<b>Output (AC)</b>						
Max. Output Current	13A	16A	17.4A	20A	21.7A	26A
Rated Power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA
Rated Voltage	230V, L + N + PE					
Operating Voltage Range	176V ~ 270V					
Frequency	50Hz / 60Hz					
Power Factor	0.8 lagging~0.8 leading					
THDi	<3%					
<b>Output (EPS)</b>						
Rated Power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA
Rated Voltage	230Vac					
Rated Current	13A	16A	17.4A	20A	21.7A	26A
Rated Frequency	50Hz / 60Hz					
Automatic Switching Time	<20ms					
Overload Capability	110%, 30s / 120%, 10s / 150%, 0.02s					
THDu	<2%					
<b>Battery</b>						
Battery Voltage Range	40V ~ 58V					
Max. Charging Voltage	58V					
Charge / Discharge Current	95A / 62.2A	95A / 75A	95A / 83.3A	95A / 95.8A	95A / 104.2A	95A / 110A
Battery Type	Lithium / Lead-acid					
Communication	CAN / RS485					
<b>Efficiency</b>						
Max. DC Efficiency	97.60%					
European Efficiency	97.0%					
MPPT Efficiency	99.90%					
Battery Charge / Discharge Efficiency	95.0%					
<b>Communication</b>						
Display	LCD					
Communication	standard: RS485 / CAN / DRM optional: WIFI / 4G					
<b>Standard Compliance</b>						
Certificates	CE, TUV, SAA, NRS					
<b>General Data</b>						
Dimensions (W x H x D)	550 x 515 x 200 mm					
Weight	25kg					
Operation Temperature	-25°C ~ +60°C					
Cooling Method	Natural Cooling					
Protection Degree	IP65					
Noise Emission	<35dB					
Max. Operating Altitude	2000m					
Relative Humidity	0 ~ 95% (non-condensing)					
Topology	Transformerless					
Standby Power Consumption	< 3W					