

# BD3-8kW-RL1-1

## Single Phase Hybrid Inverter



BD3-6KTL-RL1-1



BD8KTL-RL1-1



### 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
- Support RS485/CAN/DRM (WiFi/4G optional): remote monitoring and operation via PC or mobile phones



### Flexible Abundant configuration

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

	BD3KTL-RL1-1	BD3K6TL-RL1-1	BD4KTL-RL1-1	BD4K6TL-RL1-1	BD5KTL-RL1-1	BD6KTL-RL1-1	BD8KTL-RL1-1
<b>Input (PV)</b>							
Max. PV Input Power	4.6kW		6kW		7kW		12kW
Max. PV Input Voltage	550V						
MPP Voltage Range	125V ~ 500V						
Max. PV Input Current	14A						12A
Number of MPP Trackers / String per MPPT	2 / 1						4 / 1
<b>Output (AC)</b>							
Max. Output Current	13A	16A	17.4A	20A	21.7A	26A	38.3A
Rated Power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA	8kVA
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	8kVA
Rated Voltage	230Vac						
Rated Current	13A	16A	17.4A	20A	21.7A	26A	38.3A
Rated Frequency	50Hz / 60Hz						
Automatic Switching Time	<20ms						
Overload Capability	110%, 30s / 120%, 10s / 150%, 0.02s						125%, 60s / 150%, 1s
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	190A / 190A
Battery Type	Lithium / Lead-acid						
Communication	CAN / RS485						
<b>Efficiency</b>							
Max. DC Efficiency	97.60%						98.2%
European Efficiency	97.0%						97.0%
MPPT Efficiency	99.90%						99.90%
Battery Charge / Discharge Efficiency	95.0%						96.0%
<b>Communication</b>							
Display	LCD						
Communication	standard: RS485 / CAN optional: WIFI / 4G						
<b>Standard Compliance</b>							
Certificates	CE, TUV, NRS						
<b>General Data</b>							
Dimensions (W x H x D)	550 x 515 x 200 mm						460 x 225 x 760 mm
Weight	25kg						41kg
Operation Temperature	-25°C ~ +60°C						
Cooling Method	Natural Cooling						
Protection Degree	IP65						
Noise Emission	<35dB						<38 dB
Max. Operating Altitude	2000m						
Relative Humidity	0 ~ 95% (non-condensing)						
Topology	Transformerless						
Standby Power Consumption	< 3W						