



BD 3-6kW-RL1

Energy Storage Solar Inverter



Lead-acid/
lithium
battery



Battery reverse
protection



IP65



Zero export
function
(integrated)



Natural cooling,
low noise



Charge/discharge
protection



Smart energy
management

	BD3KTL-RL1	BD3K6TL-RL1	BD4KTL-RL1	BD4K6TL-RL1	BD5KTL-RL1	BD6KTL-RL1
DC input parameter						
Max. input Power	4.6kW		6kW		7kW	
Max. input voltage	550V					
Max. input current	14A / 14A					
Start-up voltage	120V					
MPPT range / Nominal	125V ~ 550V / 360V					
MPPT tracker / String	2 / 1					
AC output parameter						
Rated power	3kVA	3.6kVA	4kVA	4.6kVA	5kVA	6kVA
Max. output current	13A	16A	17.4A	20A	21.7A	26A
Nominal voltage/range	230V / 176V ~ 270V					
Frequency	50Hz / 60Hz					
Power factor	1 (0.99 lagging ~ 0.99 leading)					
THDI	<3%					
AC output topology	L + N + PE					
Battery technical parameter						
Battery voltage rang	40V ~ 58V					
Max. charging voltage	58V					
Charge/discharge current	95A / 62.2A	95A / 75A	95A / 83.3A	95A / 95.8A	95A / 104.2A	95 A / 110A
Battery type	lithium / Lead-acid					
Communication	CAN / RS485					
EPS output						
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 swieching time	< 20ms					
THDU	< 2%					
Overload capability	110% / 60s, 120% / 30s, 150% / 10s					
Efficiency						
Battery charge/discharge efficiency	95%					
DC max. efficiency	97.60%					
Euro efficiency	97%					
MPPT efficiency	99.90%					
Display and Communication						
Display	LCD					
Interface	RS485 / WIFI / LAN / CAN / DRM					
Standare						
Certificate	CE, TUV, SAA					
General data						
Protection class	IP65					
Noise emission	<35dB					
Operation temperature	-25°C ~ +60°C					
Cooling	Natural					
Relative humidity	0 ~ 95% (non-condensation)					
Altitude	2000m					
Dimension (W x H x D)	550 x 515 x 200 mm					
Weight	26kg					
Inverter topology	Without transformer					
Self-consumption	< 3W					

