

BD 3-6kW-RL1-A

Energy Storage All In One



Support
battery
customization



User Friendly
HMI



High DC/AC
ratio



Battery
capacity
from 2.4
to 14.4 kW · h



Easy to install



	BD3KTL-RL1-A	BD3K6TL-RL1-A	BD4KTL-RL1-A	BD4K6TL-RL1-A	BD5KTL-RL1-A	BD6KTL-RL1-A
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DC input parameter

Max. Input Power	4.6kW	4.6kW	6kW	6kW	7kW	7kW
Max. PV Voltage	550V					
Max. Input Current	14A					
Start-up voltage	120V					
MPPT Range	125V ~ 500V					
MPPT Tracker/Strings	2 / 1					

AC output parameter

Rated output power	3kW	3.6kW	4kW	4.6kW	5kW	5.6kW
Rated output current	13A	16A	17.4A	20A	21.7A	26A
Rated output voltage	230V					
Frequency	50Hz / 60Hz					
Nominal voltage/range	230V / 180V ~ 270V					
Power factor	0.99 lagging ~ 0.99 leading					
AC output topology	L + N + PE					

Battery technical parameters

Battery module	Customizable					
Battery type	Lithium iron phosphate					
Battery capacity	2.4kWh ~ 14.4kWh					
MAX. parallel batteries	6					
Life span	> 10 years (25°C / 77°F)					
Charge/Discharge Current	95A / 62.5A	95A / 75A	95A / 83.3A	95A / 95.8A	95A / 104.2A	95A / 110A

EPS output

Rated power	3kW	3.6kW	4kW	4.6kW	5kW	5.6kW
Rated current	13A	16A	17.4A	20A	21.7A	26A
Rated voltage	230Vac					
Rated frequency	50Hz / 60Hz					
THDU	< 2%					
Overload capability	110%, 60s / 120%, 30s / 150%, 10s					

Efficiency

DC max. efficiency	97.60%					
MPPT efficiency	99.90%					

Display and Communication

Display	LCD					
Interface	RS485 / CAN / DRM , Wifi / Lan					

Standard

Safety	IEC 62109-1 / -2, IEC 62477, CE-EMC					
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General parameter

Protection class	IP21					
Noise emission	< 50dB					
Operating temperature	-25°C ~ +60°C					
Cooling	Forced air cooling					
Relative Humidity	0 ~ 95% (non-condensation)					
Altitude	2000m					
Dimension (W x H x D)	350 x 1800 x 580 mm					
Weight	70kg					
Transformer	Without transformer					



Sales E-mail: solar@invt.com.cn Service E-mail: solar-service@invt.com.cn Website: www.invt-solar.com