

Blue Carbon × Deye

Blue Carbon BOX

Single Phase | Hybrid Inverter | Low Voltage
Battery Supported

BCT-DLL-L1M3-10KW

BCT-DLL-L1M3-12KW

BCT-DLL-L1M2-8KW

BCT-DLL-L1M2-6KW



Deye
Hybrid Inverter



Blue Carbon
LiFePO₄ Battery

SMART-BCT-V-48-300(P)

► Ensuring Household Power Supply

Blue Carbon × Deye

Highly Popular Low Voltage Energy Storage Solution

Single Phase low voltage hybrid inverters cover the power range of 6-12kW

The Blue Carbon BOX series is the product of in-depth collaboration between two core brands of energy storage batteries and inverters. Integrating Blue Carbon batteries' high-reliability cycling and Deye hybrid inverters' intelligent power dispatch system. Creating distributed energy solutions that maximize reliability per kWh. Not mere resource aggregation, but value integration.



Joint algorithm optimization

Discharge more stable, conversion efficiency higher, energy loss lower, overall system efficiency maximized.



Low system operating costs

With same amount of electricity but can power more devices, involving less charging and less maintenance.



Significantly reduced failure rate

Stronger stability, reducing service requests and after-sales pressure.



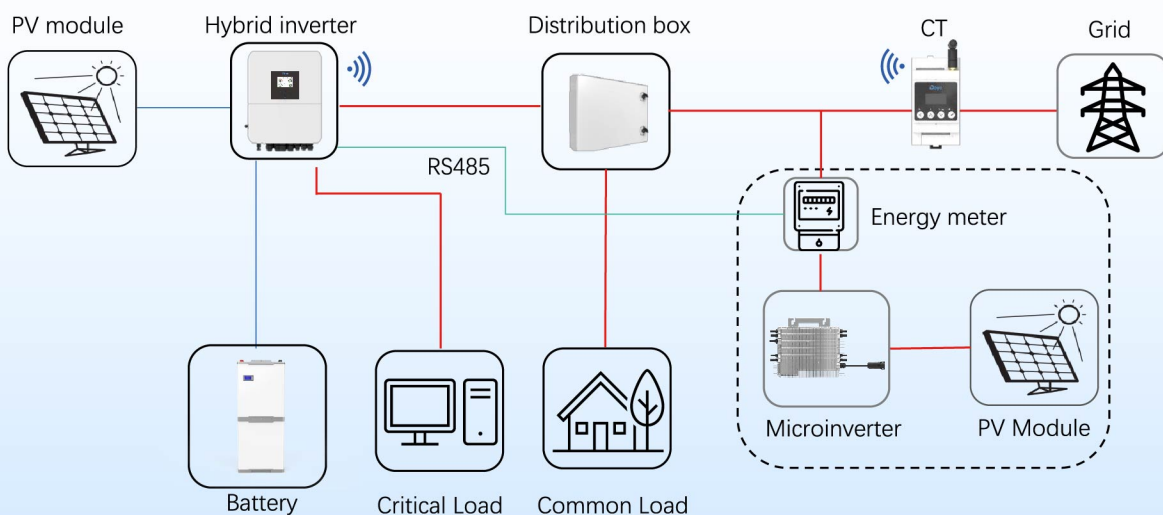
Eliminate the misunderstanding of "false performance labeling"

Do not falsely label capacity or overstate compatibility; respond proactively in service, and provide unified after-sales support, ensuring consistent expectations for investors/users.

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System Application Diagram



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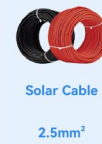


- ✓ 6~12kW for on-grid and off-grid operation.
- ✓ High Compatibility, Strong Performance One-stop Complete Solution.
- ✓ Pair with solar panels to achieve self-consumption and zero electricity bills.

PRODUCT CATALOG

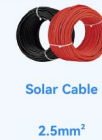
Output 220V/6kW

BCT-DLL-L1M2-6KW Inverter +
SMART-BCT-V-48-300(P)
585W Solar Panel



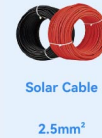
Output 220V/8kW

BCT-DLL-L1M2-8KW Inverter +
SMART-BCT-V-48-300(P)
585W Solar Panel



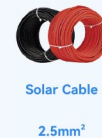
Output 220V/10kW

BCT-DLL-L1M3-10KW Inverter +
SMART-BCT-V-48-300(P)
585W Solar Panel



Output 220V/12kW

BCT-DLL-L1M3-12KW Inverter +
SMART-BCT-V-48-300(P)
585W Solar Panel



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4ms

Switching Time



16 Units in Parallel



Generators



Peak Shaving



AC Coupling



High Performance



BCT-DLL-L1M2-6KW Inverter

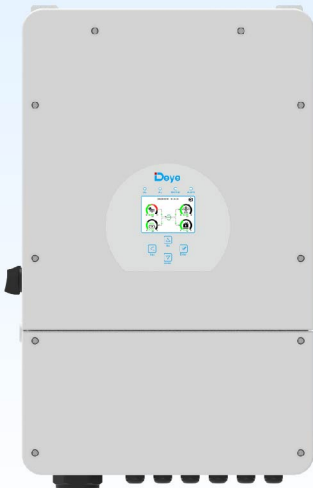
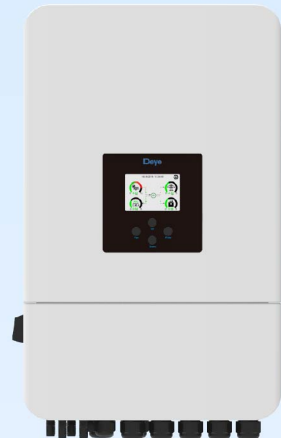
Technical Data

Rated Input Voltage (VAC)	220/230 0.85Un-1.1Un, L+N+PE
MPPT Voltage Range (VAC)	150-425
Frequency (Hz)	50/45-55, 60/55-65
Rated Capacity (kW)	6kW
Battery Rated Voltage (VDC)	40-60
Wave Form	Pure Sine Wave

BCT-DLL-L1M2-8KW Inverter

Technical Data

Rated Input Voltage (VAC)	220/230 0.85Un-1.1Un, L+N+PE
MPPT Voltage Range (VAC)	150-425
Frequency (Hz)	50/45-55, 60/55-65
Rated Capacity (kW)	8kW
Battery Rated Voltage (VDC)	40-60
Wave Form	Pure Sine Wave



BCT-DLL-L1M3-10KW/12KW Inverter

Technical Data

Rated Input Voltage (VAC)	220/230 0.85Un-1.1Un, L+N+PE
MPPT Voltage Range (VAC)	150-425
Frequency (Hz)	50/45-55, 60/55-65
Rated Capacity (kW)	10kW/12kW
Battery Rated Voltage (VDC)	40-60
Wave Form	Pure Sine Wave

Blue Carbon × Deye

Mono-facial Module N-Type

- High efficiency.
- High transmission tempered glass.
- Durable anodized aluminum frame.
- Efficient protection from frame deformation and water accumulation.
- Rugged design to withstand high wind pressure and snow load, easy installation.

Technical Data

Open-Circuit Voltage (Voc) [V]	53.08V
Optimum Operating Voltage (Vmp) [V]	43.96V
Short-Circuit Current (Isc) [A]	13.53A
Optimum Operating Current (Imp) [A]	13.31A
Wafer Efficiency [%]	24.7%



Reliable & Scalable Energy Storage

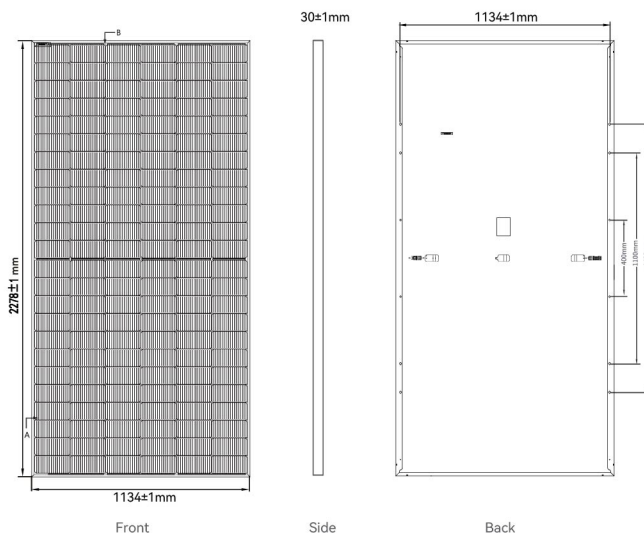
- High quality aluminium magnesium alloy, anti-corrosion, substantial, durable, artistic, practical.
- All in one mould design and production, easy to install.
- With longer span life LiFePO₄
- Dustproof structure design, DC output, safe and reliable.
- Integrated packaging, safe and convenient to transport.

Technical Data

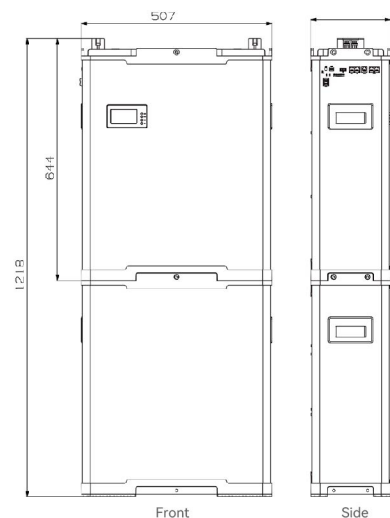
Nominal Voltage	51.2V
Nominal Capacity	300Ah
Electricity(kWh)	15.36kWh
Continuously Use Input Current	135A/190A/220A/250A
Continuously Use Output Current	135A/190A/220A/250A
Parallel	Up to 16 Pcs

Product Size (Unit: mm)

▼ Solar Panel



▼ Battery



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