

# VAVCI ENERGY BOX

**Three Phase | Hybrid Inverter | Low Voltage Battery Supported**

BCT-DLL-L3M2-15KW  
BCT-DLL-L3M2-20KW

BCT-DLL-L3M2-12KW



**Deye  
Hybrid Inverter**



**Vavci Energy  
LiFePO4 Battery**

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

## Highly Popular Low Voltage Energy Storage Solution

Three Phase low voltage hybrid inverters cover the power range of 12-20kW

The **VAVCI Energy Box** series is the product of in-depth collaboration between two core brands of energy storage batteries and inverters. Integrating **VAVCI Energy** 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.

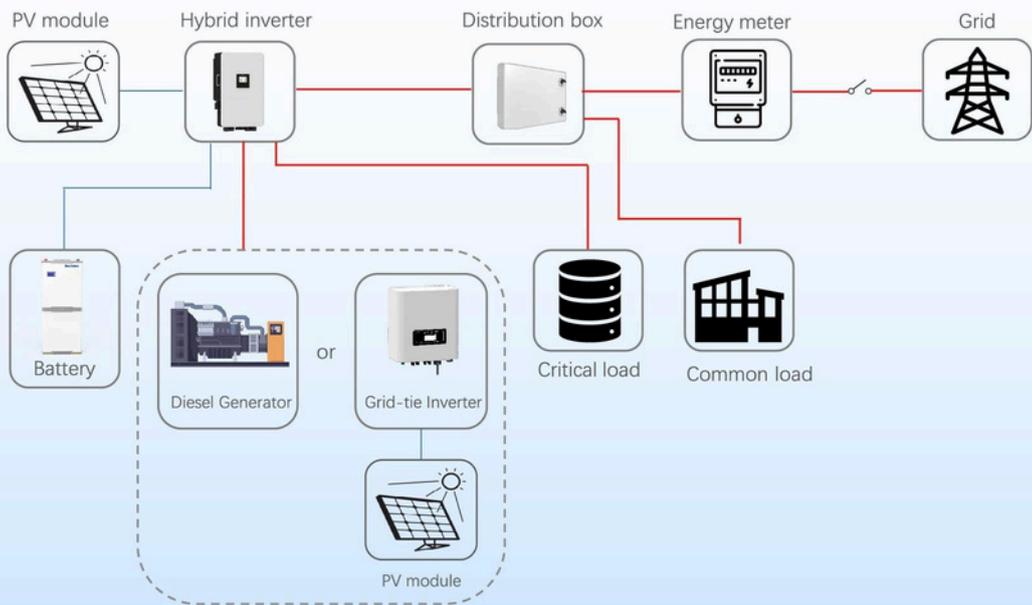


### Eliminate the misunderstanding of "false performance labeling"

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



**System Application Diagram**





- ✓ 12~20kW 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 380V/12kW

BCT-DLL-L3M2-12KW Inverter +  
SMART-BCT-V-48-300(P)  
585W Solar Panel



### Output 380V/15kW

BCT-DLL-L3M2-15KW Inverter +  
SMART-BCT-V-48-300(P)  
585W Solar Panel



### Output 380V/20kW

BCT-DLL-L3M2-20KW Inverter +  
SMART-BCT-V-48-300(P)  
585W Solar Panel





## Electricity Meter Off

Safe Low Voltage

Modular Design

4ms

Switching Time



10 Units in Parallel



Generators



Peak Shaving



AC Coupling



High Performance



### BCT-DLL-L3M2-12KW Inverter

#### Technical Data

Rated Input Voltage (VAC)	220/380V, 230/400V 0.85Un-1.1Un, 3L+N+PE
MPPT Voltage Range (VAC)	200-650
Frequency (Hz)	50/45-55, 60/55-65
Rated Capacity (kW)	12kW
Battery Rated Voltage (VDC)	40-60
Wave Form	Pure Sine Wave

### BCT-DLL-L3M2-15KW/20KW Inverter

#### Technical Data

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Battery Rated Voltage (VDC)	40-60
Wave Form	Pure Sine Wave



### 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

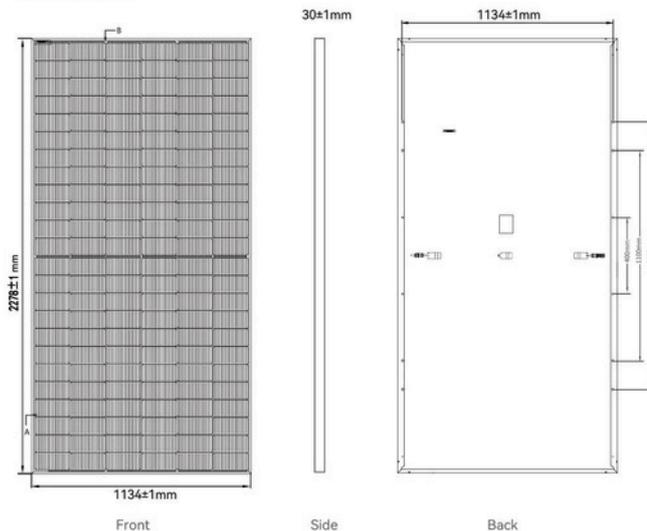
- High quality aluminium magnesium alloy, anti-corrosion, substantial, durable, artistic, practical.
- All in one mould design and production, easy to install.
- With longer span life LiFePO4
- Dustproof structure design, DC output, safe and reliable.
- Integrated packaging, safe and convenient to transport.

#### Technical Data

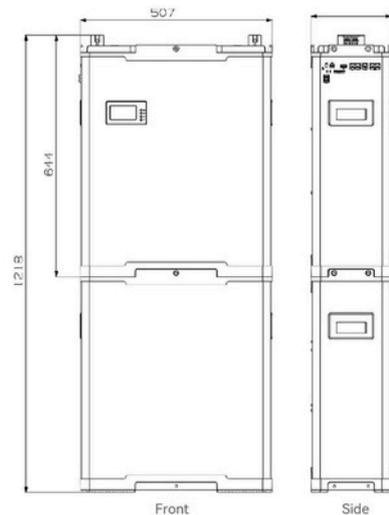
Nominal Voltage	51.2V
Nominal Capacity	300Ah
Electricity(kWh)	15.36kWh
Continuously Use Input Current	250A/280A/350A
Continuously Use Output Current	250A/280A/350A
Parallel	Up to 16 Pcs

### Product Size (Unit: mm)

#### ▼ Solar Panel



#### ▼ Battery



# VAVCI x Deye

GREEN ENERGY



