

FSD~4.2KIP-BL-G3  
「4.2kW」



## Features



### Parallel Connection

Parallel connection with up to 9 units



### Enhanced Overload Capacity

2 times the rated power for 5 seconds



### High-Power Module Compatibility

Higher PV input current up to 18A



### Smart Load Management

Dual AC outputs to power loads on demand priority



### Seamless Switchover

UPS-level switching time ≤4ms



### Efficient Battery Charge/Discharge

Max. 120A charge current

Max. 137A discharge current



### Remote Monitoring

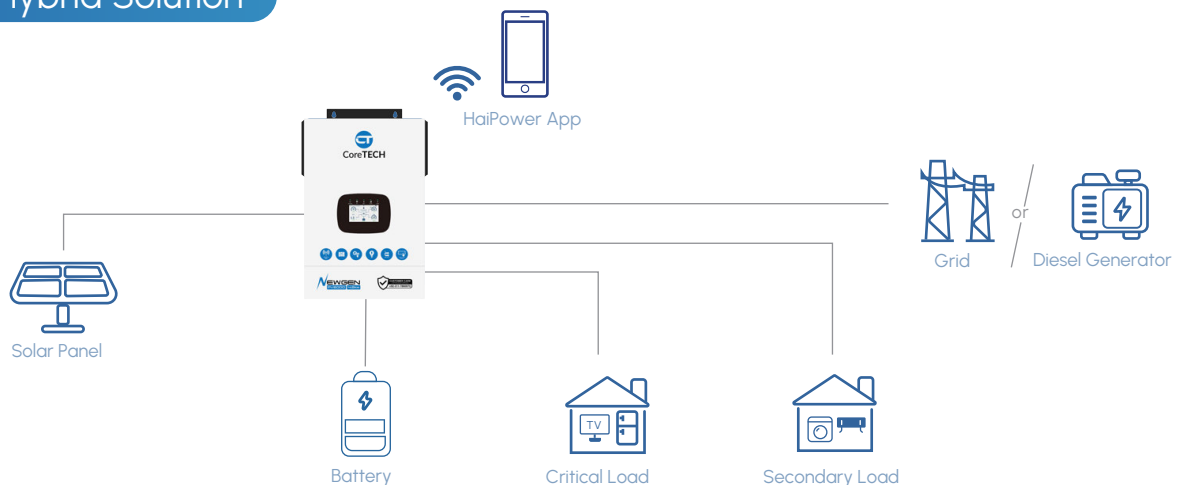
Built-in WiFi module for HaiPower monitoring



### Touch Screen

4.3" 800 x 480 interactive display without physical keys

## Hybrid Solution



## Specifications

### Model

FSD-4.2KIP-BL-G3

#### Solar Input Data

|                                     |          |
|-------------------------------------|----------|
| Max. PV Input Power                 | 6000W    |
| Max. Input Voltage                  | 500V     |
| Start-up Voltage                    | 90V      |
| MPPT Voltage Range                  | 60V~450V |
| Max. Input Current per MPPT         | 18A      |
| Max. Short Circuit Current per MPPT | 23A      |
| Number of MPPT                      | 1        |

#### Battery Data

|                               |                    |
|-------------------------------|--------------------|
| Battery Type                  | Li-Ion / Lead-acid |
| Nominal Battery Voltage       | 24V                |
| Battery Voltage Range         | 20~30V             |
| Max. Discharge Current        | 137A               |
| Max. Charge / Discharge Power | 3300W              |
| Li-Ion Battery Activation     | Yes                |
| Li-Ion Battery Communication  | CAN / RS485        |
| Max. Solar Charge Current     | 120A               |
| Max. AC Charge Current        | 100A               |
| Max. Charge Current (PV+AC)   | 120A               |

#### AC Input Data (Grid)

|                       |                          |
|-----------------------|--------------------------|
| Nominal Input Voltage | 230Vac, L / N / PE       |
| Input Voltage Range   | 90~280V                  |
| Max. Input Current    | 25A                      |
| Nominal Input Power   | 5700W                    |
| AC Frequency Range    | 50 / 60Hz (Auto sensing) |

#### Inverter Output Data

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Nominal Output Power   | 4200W with PV & battery    3300W with battery only        |
| Peak Apparent AC Power | 8400VA                                                    |
| Nominal AC Voltage     | 230V                                                      |
| Nominal Grid Frequency | 50 / 60Hz                                                 |
| Voltage Waveform       | Pure Sine Wave                                            |
| Transfer Time (Typ)    | 4ms                                                       |
| Nominal Output Current | 18.3A                                                     |
| Overload Protection    | 30s@102%-110% load; 10s@110%-130% load; 5s@130%-200% load |
| THDv (@linear load)    | <3%                                                       |

#### Efficiency

|                 |         |
|-----------------|---------|
| Peak Efficiency | 94%     |
| MPPT Efficiency | ≥ 99.9% |

#### Protect

|                             |     |
|-----------------------------|-----|
| DC Surge Protection         | Yes |
| AC Surge Protection         | Yes |
| AC Short Circuit Protection | Yes |

#### System Parameters

|                             |                         |
|-----------------------------|-------------------------|
| Dimension (W*H*D)           | 333*505*120mm           |
| Weight                      | 10.6 kg                 |
| Relative Humidity           | 5%~95% (Non-condensing) |
| Operating Temperature Range | -10°C~60°C              |
| Noise Emission              | ≤ 50dB                  |
| Altitude                    | 2000m                   |
| Cooling Method              | Fan Cooling             |
| Ingress Protection          | IP20                    |

#### Characteristic

|                         |                           |
|-------------------------|---------------------------|
| Number of AC Output     | 2                         |
| Display                 | LCD & APP                 |
| Communication Interface | RS485 / USB / CAN / Wi-Fi |
| Parallel Capability     | 9                         |