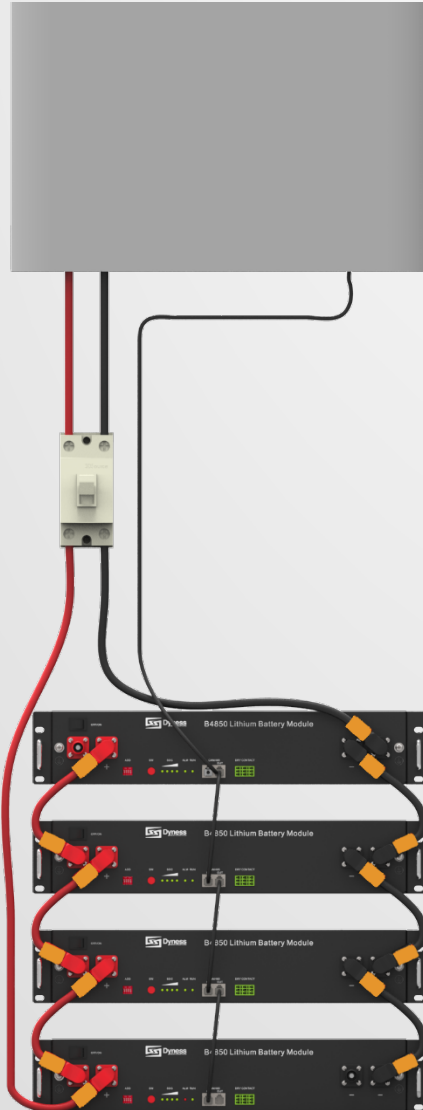




R&C ESS Case Study

Dyness B4850 Battery Module



B4850



Specification



| Model | B4850 |
|---------------------------------|---|
| Battery Type | LiFePO4 |
| Nominal Battery Energy | 2.4kWh |
| Nominal Capacity | 50Ah |
| Nominal Voltage | 48V |
| Charging Cut-off vol. | 54V |
| Discharging End-off vol. | 42V |
| Recommend C Rate | 0.5C |
| Continuous Max C Rate | 1C |
| Net Weight | 22Kg |
| Dimension [W*D*H] | 480*360*90mm |
| Charging Temp. Range | 0 ~ 50 °C |
| Discharging Temp. Range | -20 ~ 50 °C |
| Calendar Life ^[1] | 6000 Cycles |
| Protection Level | IP20 |
| Communication | CAN / RS485 / DRY CONTACT |
| Certification & Safety Standard | TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited |
| Warranty | 10 Years |

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% Dod



B4850 Case Study

Address: UAE

Capacity: 3.6kW/4.8kWh

Function: Backup power



Address: Jiangsu

Capacity: 3kW/2.4kWh

Function: Backup power



Address: South Africa

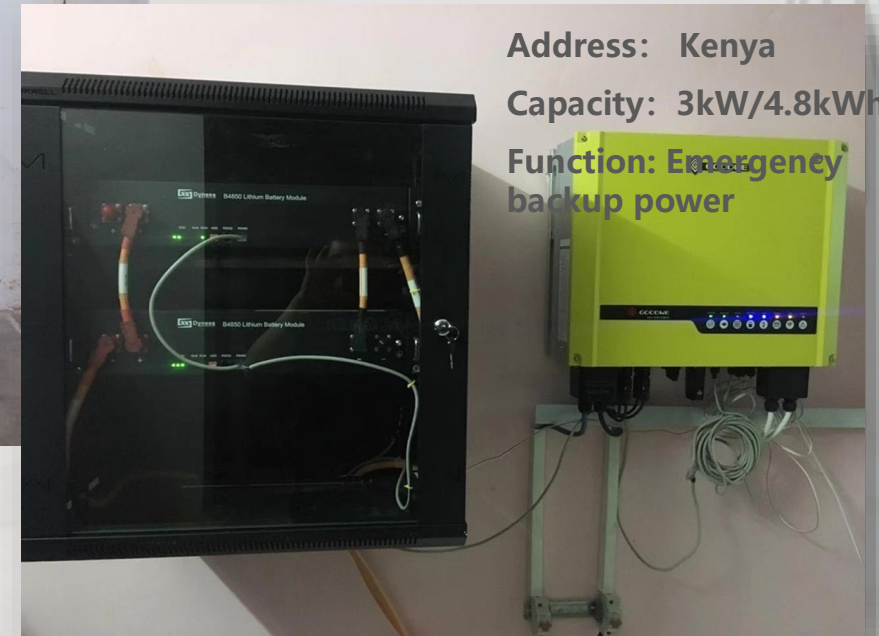
Capacity: 10kW/14.4kWh

Function: Backup power

Address: Kenya

Capacity: 3kW/4.8kWh

Function: Emergency backup power





B4850 Case Study



Address: Australia

Capacity: 5kW/7.2kWh

Function: Integrated renewable energy,
Backup power



Address: Spanish

Capacity: 5kW/7.2kWh

Function: Backup power



Address: Hongkong

Capacity: 3kW/4.8kWh

Function: off-grid Backup power



B4850 Case Study



Address: Philippe

Capacity: 15kW/38.4kWh

Function: Integrated Renewable energy,
Backup power



Address: South Africa

Capacity: 10kW/21.6kWh

Function: Integrated Renewable energy,
Backup power



Address: South Africa

Capacity: 10kW/50.4kWh

Function: Commercial application/Integrated
Renewable energy,
Backup power



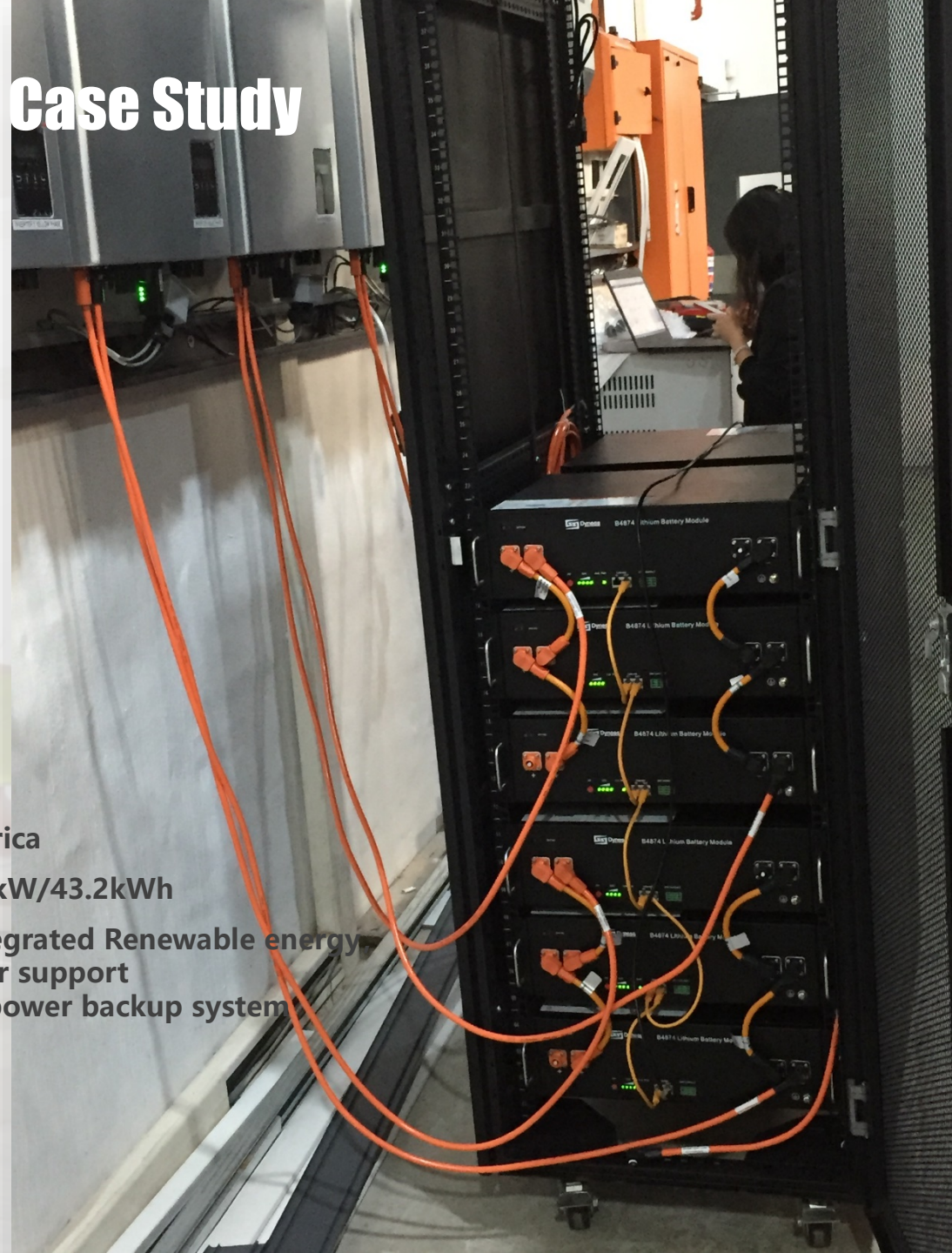
B4850/B3 Case Study



Address: China

Capacity: 24kW/108kWh

Function: Integrated Renewable energy,
Backup power support
Commercial power backup system



Address: Africa

Capacity: 15kW/43.2kWh

Function: Integrated Renewable energy
Backup power support
Commercial power backup system



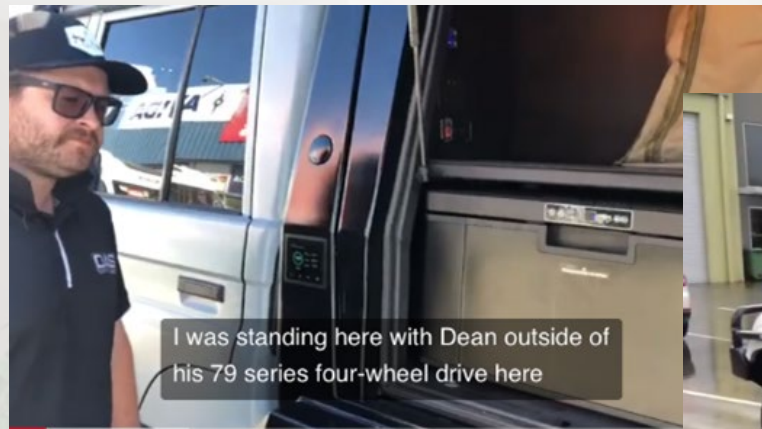
B4850 Case Study



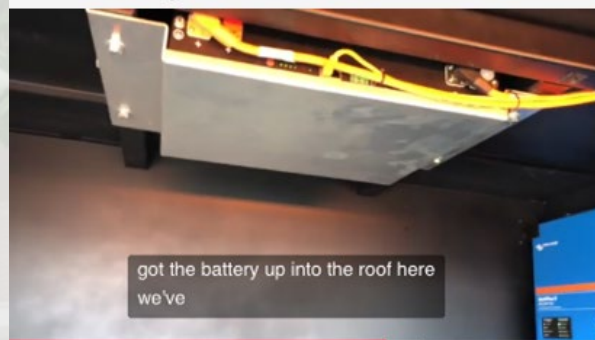
#australianinnovation #safieri

Avida 48-12v Upgrade 600ah Lithium 3000w inverter 1000w Solar

2340次观看



48-12v Hybrid in Deano's 79 Series Cruiser



48-12v Hybrid in Deano's 79 Series Cruiser



Blue Heeler Pack in Amarok Car



Address: Australia

Capacity: 3kW/4.8kWh

Function: Integrated renewable energy
Backup power supply

Recreational vehicle reconstruction project

Dyness Powerbox F series –IP65

- Powerbox has **Stronger load carrying capacity.**

Specification

| Model | Powerbox | | | |
|---------------------------------------|--|-----------------|-----------------|------------------|
| Battery Type | LiFePO4 | | | |
| Battery Module | F-2.5 1 Module | F-5.0 2 Modules | F-7.5 3 Modules | F-10.0 4 Modules |
| Battery Capacity [Ah] | 50 | 100 | 150 | 200 |
| Nominal Battery Energy [kWh] | 2.4 | 4.8 | 7.2 | 9.6 |
| Max Output Power [kW] | 2.4 | 4.8 | 4.8 | 4.8 |
| Net Weight [Kg] | 47 | 69 | 91 | 113 |
| Dimension [H*W*D, mm] | 928*555*210 | | | |
| Working Voltage [V] | 40.5~54 | | | |
| Operating Temp. Range [°C] | -20~50 | | | |
| Calendar Life [Cycles] ^[1] | 6000 | | | |
| Nominal Voltage [V] | 48 | | | |
| Protection Level | IP65 | | | |
| Communication | CAN / RS485 / DRY CONTACT | | | |
| Certification & Safety Standard | TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited | | | |
| Scalability [kWh] | Up to 4 units to parallel | | | |
| Compatible Inverters | Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced | | | |
| Warranty | 10 Years | | | |
| Warranty Document Supplied | Yes | | | |
| Color | White | | | |
| Alarms | Overcharge Overdischarge Overcurrent Overtemperature Short Circuit | | | |
| Pros | Can be used in both off-grid and hybrid setups, compact design, modular expansion | | | |
| Monitoring & Protection | Each module has BMS, breaker embedded in system | | | |

- Powerbox F series system has a larger charge and discharge power up to 1C charging/discharging rate , thus Powerbox system has a strong load carrying capacity. This situation is especially suitable for application scenarios with low battery capacity and high load power demand, which will reduce the customer's purchase cost.
- Powerbox F series built-in DC circuit breaker can protect the system from short circuit and can reduce costs.



**Powerbox F 10.0
With B4850 battery
module inside**



[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% Dod



Powerbox F series Case Study



Address: Nanjing
Capacity: 5kW/9.6kWh
Function: Integrated renewable energy



Address: Suzhou, Jiangsu Province
Capacity: 5kW/9.6kWh
Function: Backup power support



Address: Australia
Capacity: 5kW/9.6kWh
Function: Integrated renewable energy



Address: Australia
Capacity: 5kW/9.6kWh
Function: Peak Shifting



Powerbox F series Case Study



Address : Cambodia

Capacity : 5kW/9.6kWh

Function: Integrated renewable energy



Address: The Czech Republic

Capacity: 5kW/9.6kWh

Function: Integrated renewable energy



Address: French

Capacity: 5kW/7.2kWh

Function: Backup power



Case Study



Address: England
Capacity: 5kW/9.6kWh
Function: Backup power



Address: Brazil
Capacity: 9.6kWh
Function: Integrated renewable energy



Address: Brazil
Capacity: 10kW/19.2kWh
Function: Integrated renewable energy



Case Study



Address: Nigeria
Capacity: 5kW/9.6kWh
Function: Backup power



Address: Thailand
Capacity: 3kW/9.6kWh
Function: Backup power



Address: Zimbabwe
Capacity: 12kW/19.2kWh
Function: Peak Shifting, Backup power



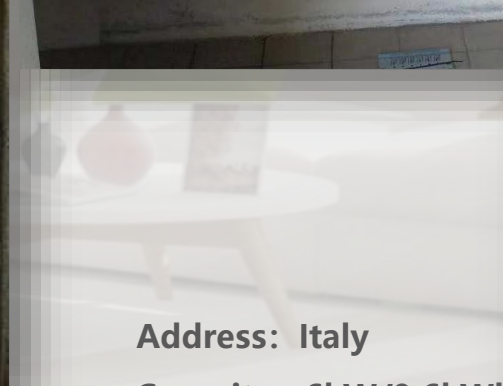
Case Study



Address: Philippines
Capacity: 15kW/28.8kWh
Function: Integrated renewable energy



Address: Taiwan
Capacity: 5kW/9.6kWh
Function: Integrated renewable energy



Address: Italy
Capacity: 6kW/9.6kWh
Function: Integrated renewable energy





Case Study

Address: Saudi Arabia

Capacity: 5kW/9.6kWh

Function: Integrated renewable energy, back up power support



Address: Italy

Capacity: 5kW/9.6kWh

Function: Integrated renewable energy



Address: Philippines

Capacity: 5kW/9.6kWh

Function: Integrated renewable energy



Case Study



Address: South Africa

Capacity: 28kW/48kWh

**Function: Integrated renewable energy
Small commercial power backup system**



Address: South Africa

Capacity: 10kW/38.4kWh

**Function: Integrated
renewable energy**



Address: South Africa

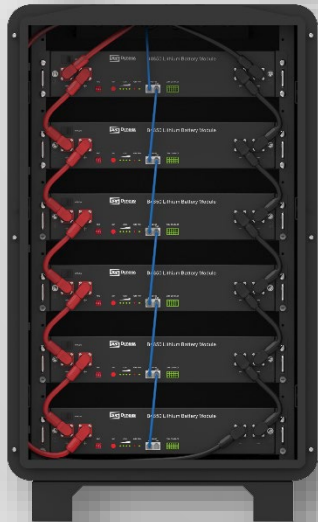
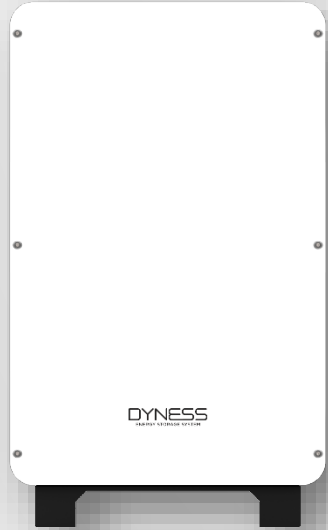
Capacity: 10kW/28.8kWh

Function: Integrated renewable energy



Dyness Powercube series –IP65

Dyness Customized system-Powercube
With B4850 battery module inside.



| Model | Powercube | | | | |
|---------------------------------------|--|-----------|-----------|-----------|-----------|
| Battery Type | LiFePO4 | | | | |
| Battery Module | 5 Modules | 6 Modules | 7 Modules | 8 Modules | 9 Modules |
| Battery Capacity [Ah] | 250 | 300 | 350 | 400 | 450 |
| Nominal Battery Energy [kWh] | 12 | 14.4 | 16.8 | 19.2 | 21.6 |
| Working Voltage [V] | 40.5~54 | | | | |
| Operating Temp. Range [°C] | -20~50 | | | | |
| Calendar Life [Cycles] ^[1] | 6000 | | | | |
| Nominal Voltage [V] | 48 | | | | |
| Protection Level | IP65 | | | | |
| Communication | CAN / RS485 / DRY CONTACT | | | | |
| Certification & Safety Standard | TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited | | | | |
| Scalability [kWh] | Up to no limit | | | | |
| Compatible Inverters | Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye More brands will be announced | | | | |
| Warranty | 10 Years | | | | |
| Warranty Document Supplied | Yes | | | | |
| Color | White | | | | |
| Alarms | Overcharge Overdischarge Overcurrent Overtemperature Short Circuit | | | | |
| Pros | Can be used in both off-grid and hybrid setups, compact design, modular expansion | | | | |
| Monitoring & Protection | Each module has BMS, breaker embedded in system | | | | |

[1] Test conditions: 0.2C Charging/Discharging, @25°C, 80% Dod



Powercube series Case Study



Address: Japan
Capacity: 6kW/10kWh
Function: Integrated renewable energy



Address: Japan
Capacity: 6kW/16.0kWh
Function: Backup power



Powercube series Case Study



Address: Japan

Capacity: 6kW/10kWh/ 16.0kWh

Function: Integrated renewable energy



Powercube series Case Study



Address: South Africa

Capacity: 5kW/12kWh

Function: Backup power support



Address: Australia

Capacity: 5kW/14.4kWh

Function: Integrated renewable energy, backup power support



Dyness
ENERGY STORAGE SYSTEM

Dyness

Thank you

For your time