



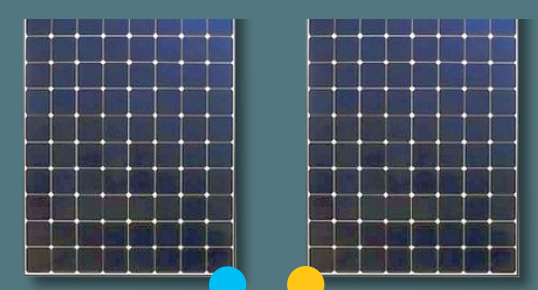
ARBARR POWER SILO

F3.5NS: 24V DC -230V AC UNIVERSAL POWER SHIFTER



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 F3.5NS: 24V DC -230V
 AC UNIVERSAL POWER SHIFTER

2kW Solar PV 2kW Wind Turbine



Charge Controller

5kW - 10kW
LiFe PO4

DC Input to
24V Battery



arbarr
ENERGY STORAGE TECHNOLOGIES

2kW Generator 230V



MAIN
230V

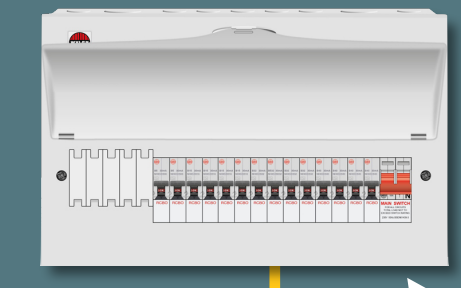
AC Input Cable Mount Plug
32A 230V 1P44 IEC60309



System Circuit
Breakers & Time Clock

Inverter On/Off Switch

Consumer Unit to Load



Max 3kW Load

1. Lighting Circuits
2. Smoke Alarm Circuit
3. Security / Alarm Circuit
4. Heating Control / Pump Circuit
5. Socket Ring Circuit (Phone / Internet Router / Fridge / Freezer)

UPS



MAIN
230V

Change Over Switch

230 AC Output from 24V DC -
230V AC 3KW Inverter

AC Disconnection Isolator



TECHNICAL INFORMATION

Inverter Specification

Input Voltage	24V DC
Nominal Voltage	230VAC
Voltage Range	21V - 30V DC
Nominal Input Frequency	50Hz or 60Hz (Auto Detect)
Overload Protection	Circuit Breaker
Short Circuit Protection	Circuit Breaker
Inverter Specification / Input	
Nominal Input Voltage	24V
Minimum Start Voltage	21.5V
Low Battery Alarm	23V
Low Battery Trip	21V
Power Saver	Below 25W when enabled. Same switched on/off on remote.
Voltage Protection Shutdown	30V
Size (mm)	488mm x 230mm x 108mm
Weight	8kg
Inverter Specification / Output	
Output Wave Form	Pure sine wave
Output Continuous Power (Watts)	3000
Peak Power (Watts)	6000
Power Factor	0.9 - 1.0

MPPT Charge Controller Specification (Optional)

Battery Voltage	24V
Charge Current	40A
Discharge Current	40A
Max Solar Input	55V
Operating Temperature	-35

Battery Specifications

10kW LiFePO4

Nominal Voltage	25.6V
BMS	Smart BMS, 24V, 300A Continuous Discharge
Charge Current	5kW
Power Capability	3kWh
Life Cycle	7500 Cycles
Weight	72kg
UPS Functionality	Yes

UPS Changeover Switch (Optional)

Switch Over Time	<10ms
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Mains Charger

Current	25A
240V AC - 24VDC	Yes

System Cabinet

Colour	Green / Grey
Measurement	1095 (W) x 680 (D) x 1320 (H)

TECHNICAL INFORMATION

BMS Specification

Continuous Discharge Current	300A
Voltage	24V
Peak Discharge Current	600A
Over Charge Protection	Yes
Short Circuit Protection	Yes
Balance	Voltage and Current Balance - Yes
Communication	Bluetooth, RS485, CAN

This 10kW complete system comes with weather proof (IP67) for outdoor purposes and consists of:

- Inverter
- MPPT Charge Controller (Optional)
- LiFePO4 Battery
- Smart BMS (Bluetooth)
- UPS Change Over Switch
- Mains Charger

Other customised configurations can be added to meet customer requirements e.g. Wind Turbine or Generators.

10kW ESS





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