

Harvesting Clean Energy / Protecting Our Environment

Overview

Enhanced Design Features

Control Panel

The Condor Energy Pod 402 uses an advanced electrical controller, It is a DES7320 auto control parallel monitoring system. It can be used manually or automatically as it comes with auto fault alarm protection functions and standards.

Design Quality

The Condor Energy Pod 402 has been manufactured using the highest grade of manufacturing technology available insuring a robust and durable design.



Our Mission -

We design products that harvest clean energy, minimising the impact on the environment.

In line with the UK and European governments commitments of realizing zero net carbon by 2050, we are focused on reducing carbon emissions throughout our business and supply chains by bringing the most innovative and advance products to market in line with progress to a circular economy.



Intelligent Sustainable

Power Supply

The Condor Energy Pod 402 significantly reduces CO₂ emissions and reduces on fuel costs. It has been designed to utilize energy from the sun and wind thus delivering sustainable power to remote sites where needed.

It comes complete with a backup generator that runs on HVO Hydro treated vegetable oil which automatically starts when the batteries become low ensuring constant and consistent clean power 24hrs per day.

The Condor Energy Pod Intelligently transfers wind and solar energy to charge the onboard Lithium Iron Phosphate batteries.

This energy to power transition is managed by the smart control module ensuring the user only needs to position the units on site, open out the Solar PV panels and extend the wind turbine mast and press start.

The Condor Energy Pod 402 has a prime power rating of 75kVA and can be interconnected, delivering more power onsite where needed.

CLEAN SUSTAINABLE RESPONSIVE POWER SUPPLY:

The Condor Energy Pod 402 can be used in conjunction with further Solar PV panels. The Condor Energy Pods unique design allows the Solar PV panels to tilt and adjust insuring maximum absorbtion of the suns rays during daylight hours thus maximising the overall charging performance. Delivering more sustainable power. The battery storage capacity can also be increased upon request.

Fuel
Noise
Emissions
Maintenance





REDUCED

FUEL



REDUCED

NOISE



REDUCED

EMISSIONS



REDUCED

MAINTENANCE







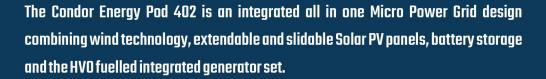








Features





The All in One unit is an intelligently designed economically sufficient power system that ensures the reduction of harmful CO, gases to the atmosphere.

It has been developed for prime power applications and has a quick and easy set up time. The unit is mainly used for delivering power to on site office cabins, drying rooms and wash room facilities where mains power is unavailable.

Superior Features



Input CEE 32A/5P Socket*2, Input CEE 125A/5P Socket*1. Sockets come complete with MCB and RCCB.



The unique design allows the Solar PV panels to tilt and adjust insuring maximum absorbtion of the suns rays during daylight hours



2 x Extendable Wind turbines producing 400W each with a combined output power of 800W

SECTORS



CONSTRUCTION



SPECIAL EVENTS



OIL, GAS & MINING



HARD TO REACH AREAS



MILITARY

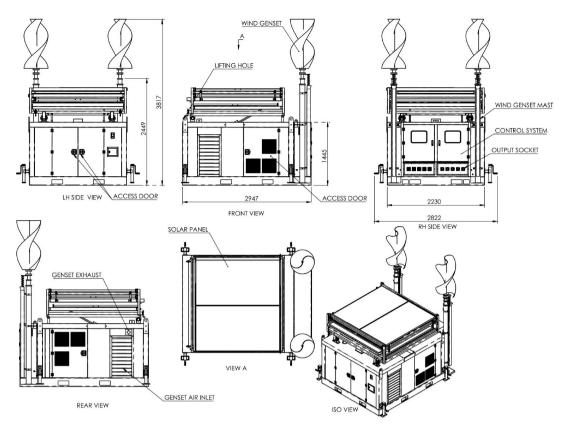
Condor Energy Pod 402

| OUTPUT POWER | System Rated Output Power | 45 kVA/36kW | | | |
|--------------|----------------------------------|--|--|--|--|
| | Rated Output Voltage | 230V@50Hz 3P/ 400V@50Hz,5P | | | |
| | Output Connections | Input Socket; CEE 32A/5P Socket*2, CEE 125A/5P Socket*1 Output Socket; SHUKO CEE 16A/3P Socket*2, CEE 32A/5P Socket*3, CEE 63A/5P Socket*1 All Sockets come complete with MCB and RCCB. | | | |
| | Solar panels (on board) | 415W x 10 pcs | | | |
| | Wind Turbines | Additional 400W per Wind Turbine x 2 = 800W | | | |
| æ | Generator backup power | 30kva / 24kw | | | |
| INPUT POWER | | Fuel is only used when the generator is active. Generator is constantly in AUTO and only activates when required. | | | |
| 77. | | Battery charging and/or high load spikes. | | | |
| NP | Fuel Consumption | 110% load - 9.3 Litres per hour | | | |
| | | 100% load - 8.3 Litres per hour | | | |
| | | 75% load - 6.2 Litres per hour 50% load - 4.9 Litres per hour | | | |
| | Fuel tank capacity | 1001 | | | |
| lu | Туре | Lithium Ion Phosphate Batteries | | | |
| PAGI | Capacity @ 25°C | 45kWH | | | |
| STORAGE | Charge Time (hours approx) | 4 | | | |
| 0, | Service life (years) | >5 | | | |
| CONTROL | System Controls | Low fuel level alarm & monitoring Generator control, load management, optimized quiet hours and scheduled runs Enhanced system management Ability for users to program custom logic sequences & controlled by app | | | |
| ŭ | Generator telemetry (optional) | Remote communication, monitoring & control. | | | |
| 4 | Operating Temperature Range (°C) | -20°C to +55°C Humidity (non-condensing): max 95% | | | |
| ENVIRONMENT | Solar panels - Max physical load | Wind: 4000 Pa, 408 kg/m² front & back Snow: 6000 Pa, 611 kg/m² front | | | |
| EN | Solar panels - Impact Resistance | 25 mm diameter hail at 23 m/s | | | |



Model: CEP-402

| Aodel | CEP-402 |
|------------------------------|----------------------------|
| Rated System Voltage | DC48V |
| lax. Solar Power | 4,150W |
| aily Power Consumption | 6.6kWH (Solar) |
| Storage Energy | 45kWH (LFP) |
| Rated Genset Power | 24kW |
| ated AC Voltage | 230V@50Hz 3p/ 400V@50Hz,5p |
| Rated DC Voltage | DC 48V |
| Max. AC Load Power | 36 kW |
| mbient Operating Temperature | -5~45°C |
| torage Temperature | -15~45°C |



Dimensions

| Length (L) (mm) | 3950 | Weight (Kg) | 3800 |
|-----------------|------|-----------------------------------|------|
| Width (W) (mm) | 2230 | Loading capacity in 40 HQ (units) | 3 |
| Height (H) (mm) | 2400 | | |

Energy Storage Battery

| Model | MF51100D |
|-----------------------------|----------|
| Quantity | 9pcs |
| Rated Capacity | 100AH |
| Rated Voltage | 51.2VDC |
| Maximum Charging Current | 0.5C |
| Maximum Discharging Current | 0.5C |
| Protection | BMS |
| Туре | LFP |



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Model MPPT 150/85

Quantity 1pcs

Max. PV Array Open Circuit 150V absolute maximum coldest conditions

145V start-up and operating maximum

Max. PV Array Power 4900 W@48V

Charge Voltage 'absorption' Default Setting-14,4 / 28,8 / 43,2 / 57,6v

Charge Voltage 'float' Default Setting-3,8 / 27,6 / 41,4 / 55,2v

Charge Voltage 'equalization' Default Setting-16,2V / 32,4V / 48,6V / 64,8V (adj)

Charge Algorithm Multi-Stage Adaptive

Max. Solar Charge Current 100 A

Data communication VE.Can, VE.Direct and Bluetooth

Effificiency (Peak) 98%

Dimension 185 x 250 x 95 mm(H*W*D)

Wind-Power

Model XTL-400 / 48Vac

Quantity 2 pcs

Max Power@ Air Speed 15m/s 460W

Rated Power/ Voltage 400W/ 48V AC

Leaf material Reinforced glass fiber reinforced carbon fiber

Leaf height 1050mm

Rated Air Speed 12m/s

Wind Wheel Diameter 0.55m

Min. Start-up Air Speed 1.5m/s



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|---------|------|------|------|----|
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Model 1103A-33G

Quantity 1pcs

Rated Prime Power 30kVA

Rated Power 24kW

Rate Voltage AC400V

Rated Standby Power 26.4kW

Speed 1500rpm

Engine Type 3-Cylinder, 4-Stroke, Air-cooled, Veritical

Controller DSE7320

Start System 12V Electrical

Tank Capacity 100 L

Sound Level ≤65dBA@7m

Max System Charging Current 150A

System Discharging Current 250A

Dimension 520*272*220 mm (L*W*H)

Type Special colloid battery for photovoltaic

Inverter

Model Quattro 48/15000/200-100/100

Quantity 3 pcs

Rated Power 45kVA or 36kW

Rated Input Voltage 48VDC

Rated Output Voltage 230Vac±2%

Efficiency (Peak) 96%



Solar Panel

Model JAM72S10MR 415W

Quantity 10pcs

Maximum Power 415W

Maximum Power Voltage 42.18VDC

Maximum Power Current 10.51A

Extending Type Sliding

Extending Area 22 m²

Dimension 2015×996×40 mm(L*W*H)

Power Tolerance 0~+5W

Wind-Power Charging Controller

Model MAX-14-WSII-06-1

Quantity 2 pcs

Rated Current 15A

Rated Voltage 48VDC

Applicable Wind-Power 600W

Dimension 158*113*60mm(L*W*H)

Display Type LED

Protection Function Over Speed, Over Charging, Battery Reverse

Polarity & Indirect Lightning Strike

Communication Port RS 232 (Standard) ; RS 485(Optional)

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