



## PDS Design Solutions Limited

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### PDSiUPS200 Zone 2 Uninterruptible Power Supply



**Zone 2 UPS system provides an uninterruptible power supply to plant equipment installed in potentially explosive, harsh, wet, and corrosive environments**

**ATEX II 3 G Ex nA II T4 (-20°C ≤ Ta ≤ +55°C)**

**IP66 protection**

**316L stainless steel construction**

#### Overview

The PDSiUPS200 Zone 2 UPS Enclosure is certified for use in Zone 2 hazardous areas and provides back up power for up to 120 minutes, at 70W full load. Critical equipment such as wireless network nodes or equipment used in people tracking and automatic mustering systems are protected in the event of a blackout or brownout.

The PDSiUPS200 is designed to be either wall or pole mounted, is IP66 rated and made of 316L stainless steel making the rugged enclosure suitable for installation in potentially explosive, harsh, wet and corrosive environments.

With its advanced battery charge controls, including built in temperature compensation feedback, the uninterruptible power supply system ensures the internal lead acid battery is receiving the correct charge.

Other features available include UPS status indication via enclosure mounted lamps, power output disable via an enclosure mounted button, active logic outputs for connection to a DCS or other equipment plus the option of plug and socket cable entry instead of cable glands.

Mounting solutions and brackets are available on request.

#### Features and Benefits

##### Equipment Protection

No loss of power to critical equipment during black & brown outs

##### Logic Outputs

Unit can have either in-built lamp & pushbutton indication/control or supply inputs/outputs for connection to a DCS or other equipment

##### Battery Control

The unit includes advanced battery charge control for increased battery life

##### Rugged Enclosure

Custom enclosure with IP66 ingress protection made from 316L stainless steel for installation in extremely arduous environments.

##### Backup Time

For full load, approx 120 minutes @ 25°C





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## Specification

<b>Power Supply</b>	90-264VAC
<b>Maximum Power Output</b>	67.2W, 5.6A @ 12V or 62.4W, 2.6A @ 24V depending on battery/power output voltage ordered
<b>Backup Time</b>	For full load, approx 120 minutes @ 25°C
<b>Enclosure Material</b>	316L Stainless Steel
<b>Ingress Protection</b>	IP66
<b>Weight</b>	Approximately 15 Kg
<b>Dimensions</b>	390 x 290 x 161 mm (h x w x d)
<b>Environmental</b>	Operating temperature: -20°C to 55°C Storage temperature; -20°C to 85°C Relative humidity; 0 to 95%, non condensing
<b>Input Connections</b>	115/230VAC fused screw terminals via M20 cable gland Note that connectors may be specified as an option in the ordering data
<b>Output Connections</b>	12/24VDC fused screw terminals via M20 cable gland Note that connectors may be specified as an option in the ordering data
<b>Enclosure Status Indicators (Optional, when logic outputs not used)</b>	Battery charging, green lamp — Battery being charged  Battery high, green lamp — Battery voltage OK >11.3V / 22.6V  Input OK, green lamp — Unit supplied by AC >13.1V / 26.2V  Output off, red pushbutton — Press to turn off output voltage, remove and re-apply mains to reset
<b>Logic Outputs (Optional, when status indicators not used)</b>	Battery charging, logic signal at battery voltage — Battery being charged  Battery high, logic signal at battery voltage — Battery voltage OK >11.3V / 22.6V  Input OK, logic signal at battery voltage — Unit supplied by AC >13.1V / 26.2V  Output off, opto isolated input — Connect to 0V to turn off output voltage, remove and re-apply mains to reset
<b>ATEX Certification</b>	ITS09ATEX46416 ATEX II 3 G Ex nA II T4 (-20°C ≤ Ta ≤ +55°C)

## Ordering Information

PDSiUPS200 Zone 2 UPS

200-[#1]-[#2]-[#3]-[#4]-[#5]-[#6]-[#7]

**Specify option [#1] - Battery/Power Output Voltage**

12V DC  
24V DC

12  
24

**Specify option [#2] - Battery Charging Indicator**

No Battery Charging Indicator Fitted  
Enclosure Indicator Fitted

N  
Y

**Specify option [#3] - Battery High Indicator**

No battery High Indicator Fitted  
Enclosure Battery High Indicator Fitted

N  
Y

**Specify option [#4] - Input OK Indicator**

No Input OK Indicator Fitted  
Enclosure Input OK Indicator Fitted

N  
Y

**Specify option [#5] - Output Off Pushbutton**

No Output Off Pushbutton Required  
Enclosure Output Off Pushbutton Fitted

N  
Y

**Specify option [#6] - Enclosure Cable Entry**

Cable Glands Fitted  
Quick Release Sockets Fitted

G  
S

**Specify option [#7] - Logic Outputs (only available when status indicators are not used)**

No Logic Outputs Required  
Logic Outputs Fitted

N  
L

The information contained in this document is subject to change without notice.