

iUPS101 Uninterruptible Power Supply



- ATEX Zone 1 certified
- Provides back up power for critical equipment in hazardous areas
- Modular design, allowing for added back up time
- Rugged IP66/45 system for industrial environments

Protect critical equipment

The iUPS101 provides reliable back up power to ensure that vital equipment - such as instrumentation and control systems, navigation or landing lighting, and blow out prevention systems - remain operational in the event of a blackout or brownout.

Extended back up power

The modular design allows integration of additional battery packs for added back up time – up to 87 minutes with a 3kVA load at 20°C. The iUPS101's modular design also allows 2 complete additional iUPS101 units to be attached, creating a system that can support a maximum load of 9KVA.

Modular design

Designed to be wall mounted, the iUPS101 UPS system includes an aluminium alloy Ex d charger/inverter enclosure, a stainless steel Ex e terminal enclosure, and a stainless steel iBATT100 Ex e battery enclosure containing maintenance-free valve regulated lead acid batteries.

Easy installation and configuration

Access to incoming and outgoing cables is easy - the Ex e enclosure is close coupled to the Ex d enclosure via cable bushings, so there is no need to open the Ex d enclosure. The Ex d enclosure has a glass window to show alarm and status information, and comes complete with door mounted Ex d buttons to configure the UPS display and program the two volt free auxiliary contact to use system or alarm information. The iUPS101 also includes advanced battery charge control for increased battery life.



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Specification

Certification	Ex II 2 G Ex d[e] IIB T6 Gb
EMC	EN61000-6-4:2007, EN61000-6-2:2005
Housing	Ex d enclosure: aluminium alloy Ex e close coupled enclosure: stainless steel Ex e battery enclosure: stainless steel
Ingress protection	Ex d enclosure: IP66 Ex e close coupled enclosure: IP66 Ex e battery enclosure: IP45 (non-Ex rating), IP43 (Ex rating)
Weight	Ex d enclosure + Ex e close coupled enclosure: 90 kg Ex e battery enclosure: 122 kg
Operating temperature	-20°C to 55°C @ 500VA See ambient de-rating table for further details
Relative humidity	0 to 95% non-condensing
Storage temperature	-20°C to 55°C
Input mains power supply	230V iUPS101: 180-265VAC (45-65Hz) 120V iUPS101: 90-150VAC (55-75Hz) <i>Input frequency is fixed, please specify which is required</i>
Output power supply	230VAC or 120VAC +/- 2%, 50/60 Hz
Maximum power output	3KVA <i>See de-rating table</i>
Back up time	For full load, approximately 39 minutes @ 20°C or 87 minutes with additional battery enclosure <i>See system run time table for further details</i>
Input battery voltage / capacity	24V / 48V @ 150Ah
Alarm output	2 x Programmable volt free alarm contacts, energised on a general alarm condition AC rating: 230V/12A DC rating: 24V/4A, max 50V/3A
Mean time between failure (MTBF)	340 000 hrs/failure
UPS type	Offline



System run time table

Power (VA)	24V system run time (minutes) @20°C	48V system run time (minutes) @20°C
500	336	857
1000	154	336
1500	90	205
2000	70	146
2500	50*	108*
3000	39*	87*

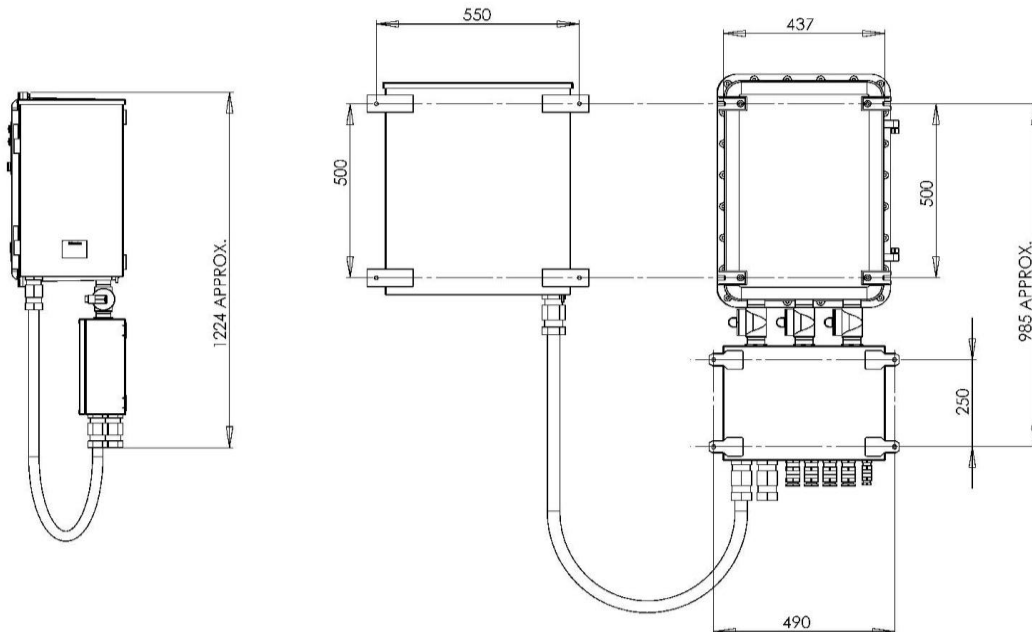


*After running for approximately 20mins at full load above 20°C, the max output power available can reduce by up to 15%

Ambient de-rating table

Max power (VA)	Max external ambient						
	20°C	30°C	35°C	40°C	45°C	50°C	55°C
500	Green	Green	Green	Green	Green	Green	Green
1000	Green	Green	Green	Green	Green	Green	Green
1500	Green	Green	Green	Green	Green	Green	Green
2000	Green	Green	Green	Green	Green	Green	Green
2500	Green	Orange	Orange	Green	Green	Green	Green
3000	Green	Orange	Orange	Green	Green	Green	Green

System run times are based on battery manufacturers' data and Extronics cannot be held responsible for any discrepancies. Run times will reduce below 20°C.



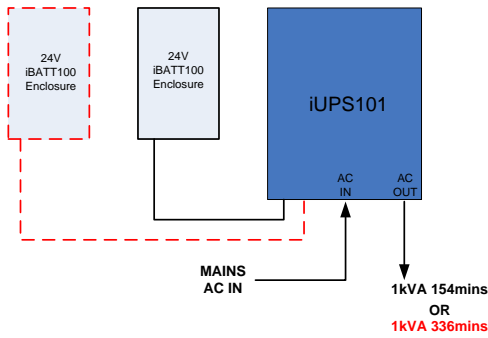
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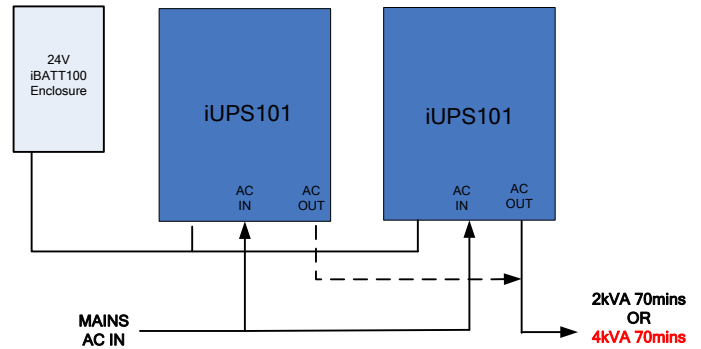
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Alternative configurations



2 Batteries in Series



2 Systems with AC Outputs in parallel

Ordering Information: iUPS101-[#1] -[#2] -[#3] -[#4] -[#5]

Specify option [#1] – battery voltage

24V DC (Standard run-time) 24

48V DC (Standard run-time) 48

Specify option [#2] – rated output power

500 VA 05

1 kVA 10

1.5 kVA 15

2 kVA 20

2.5 kVA 25

3 kVA 30

Specify option [#3] – AC voltage

230 VAC 23

120 VAC 12

Specify option [#4] – AC frequency

50 Hz 50

60 Hz 60

Specify option [#5] – remote e-stop

Remote e-stop disabled (default) N

Remote e-stop enabled (user must supply 24-48VDC power to remote e-stop circuitry) Y

Installation kit:

Installation kit for 24V UPS system IUPS101-24IK

Installation kit for 48V UPS system IUPS101-48IK



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