TECHNICAL DATASHEET

EXTRONICS

iUPS 101

Modular uninterruptible power supply for Zone 1 hazardous areas

Protect critical equipment, such as instrumentation and control systems, navigation or landing lighting, or blow out prevention systems, in the event of a blackout or brownout

ATEX and IECEx Zone 1 and 2 certified

Modular design means that the load and back up time can be tailored for your application – it depends on the battery unit you choose to work alongside the iUPS101

Protect critical systems in emergency situations	**Modular design, adaptable to suit your application**
Highly rugged, IP66 rated	**Extended backup power time to suit your needs**
Easy installation and configuration	**Suitable for a wide range of temperatures**

Extronics Released

SYSTEM RUN TIME

System run times are based on using iBATT100 with 150Ah battery; Extronics cannot be held responsible for any discrepancies. Run times will reduce below 20°C.
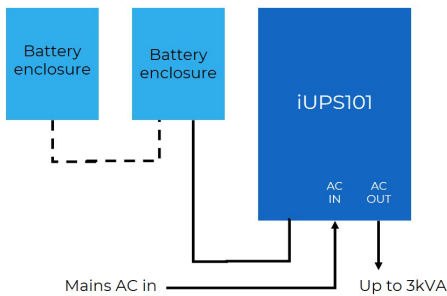
Power (VA)	24V system run time (minutes) @20°C	48V system run time (minutes) @20°C
500	336	857
1000	154	336
1500	90	205
2000	70	146
2500	50*	108*
3000	39*	87*

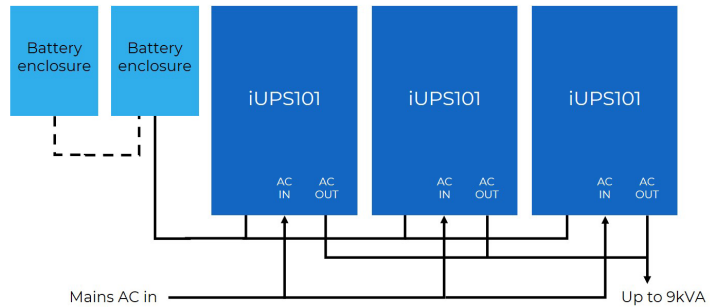| Max power (VA)	Max external ambient						
	20°C	30°C	35°C	40°C	45°C	50°C	55°C
500							
1000							
1500							
2000							
2500							
3000							

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

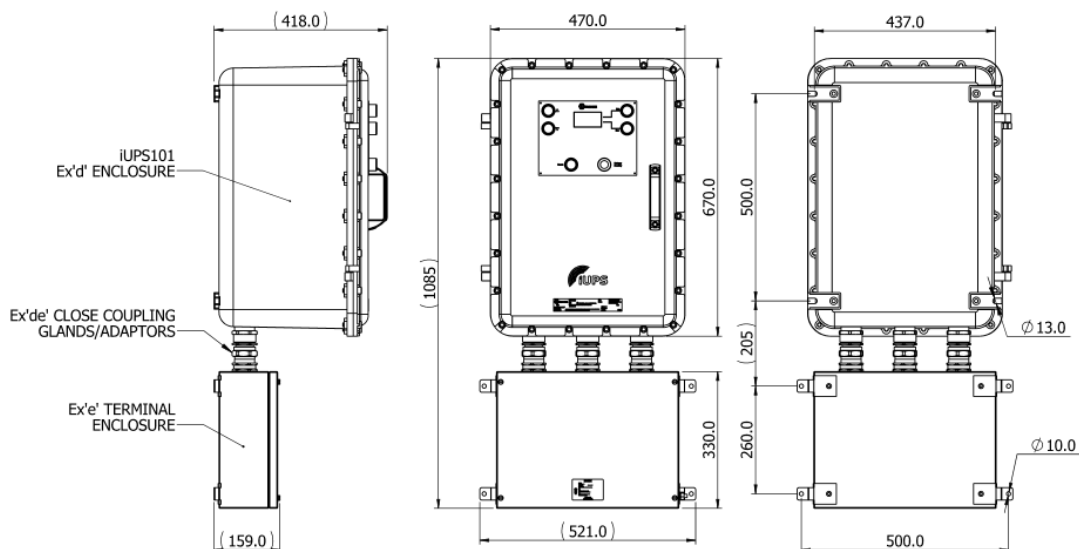# ALTERNATIVE CONFIGURATIONS

One iUPS101 system with either one or two batteries in series

Up to three iUPS101 systems with AC inputs and outputs in parallel with either one or two batteries in series

DIMENSIONS

SPECIFICATION

EXTRONICS

Certification	(Ex) II 2 G Ex db [eb] IIB T6 Gb -20°C ≤+40/55°C
EMC	EN62040-2:2006, EN61000-3-2:2014
Housing	**Ex d enclosure:** aluminium alloy **Ex e close coupled enclosure:** stainless steel
Ingress protection	**Ex d enclosure:** IP66 **Ex e close coupled enclosure:** IP66
Weight	**Ex d enclosure + Ex e close coupled enclosure:** 90 kg
Operating temperature	-20°C to +55°C @ 500VA See ambient de-rating table for further details
Storage temperature	-20°C to +55°C
Relative humidity	0 to 95%, non-condensing
Input mains power supply	230V iUPS101: 180-265VAC (45-65Hz) 120V iUPS101: 90-150VAC (55-75Hz)
Output power supply	230VAC or 120VAC +/- 2%, 50/60 Hz
Maximum power output	3KVA *See de-rating table*
Back up time	For full load, approximately 39 minutes @ 20°C or 87 minutes with additional battery enclosure based on using iBATT100 *See system run time table for further details*
Input battery voltage	24V / 48V
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

ORDERING INFORMATION

IUPS101 -[#1]-[#2]-[#3]-[#4]-[#5]-[#6]-[#7]

Specify option [#1]

Battery voltage	24V DC	24
	48V DC	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	Y

If remote e-stop is enabled, user must supply 24-48VDC power to remote e-stop circuitry.

Specify option [#6]

Ex d enclosure material	Marine grade copper-free aluminium light alloy (painted RAL5002 blue epoxy powder coat)	A
	316L stainless steel	S

Specify option [#7]

Communications module	No communications module required (default)	N
	XComm232i RS232 communication module	1
	XCommLAN communication module	2

Accessories:

	Installation kit for 24V UPS system	IUPS101-24IK
	Installation kit for 48V UPS system	IUPS101-48IK