

DIGIAIR PSU QUICK GUIDE AND INSTRUCTION MANUAL

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DigiAir PSU Quick Guide and Instruction Manual

Installation

Refer to the DigiAir Quick Guide for triggering and Dial Capture connections.

Figure 1 - Power, Tamper and Fault Wiring between the CIE, PSU and DigiAir (3 fault inputs in panel).



Where the CS1510 will be used with small CIE, the CIE is unlikely to have 3 separate fault inputs. This diagram shows how to wire all of the PSU & DigiAir fault outputs (Mains, Battery & DigiAir) to one panel fault input. Refer to the DigiAir Quick Guide for triggering and Dial Capture connections.



Mains failure and mains restore (on the AC FLT output) will be reported by the PSU to the CIE in less than 10 secs. Note that Mains failure reporting (by the CIE) to the ARC may be delayed for up to 1 hour EN50131 standard. Refer to the CIE manual for its programming/setup details. When the wiring between the PSU, CIE and DigiAir is completed, plug the battery into the BAT connector on the PSU board and connect mains power to the L, N & E terminals.

The CS1510 is a compact type A Power Supply (PSU) with battery back-up that is designed to house and power a DigiAir, and to be mounted with its associated Control Panel (CIE). The CS1510 Power Supply is suitable for use in systems installed to conform to PD 6662:2010 at Grade 1 & 2, and environmental class 1 & 2.

The CSL5652/5653 is the PSU with a DigiAir already fitted with its power wiring connected. The CS1510 is the same PSU but is supplied without a DigiAir.

This PSU is designed to supply power to a DigiAir only. Do not use the PSU to supply power to a DigiAir AND other equipment.

When fitting a DigiAir into the PSU ensures that the DigiAir's break-off mounting lugs are removed.

Ensure that the PSU's + and - 12 volt output is connected to the DigiAir's + and - supply input.

The 'normally closed' PSU outputs must be wired to the CIE inputs so that CIE setting may be inhibited by:

- TAMP terminals
- A tamper fault (i.e. the PSU lid is removed)
- AC FLT terminals
- Prime power (mains, EPS) fault
- FLT terminals
- Alternate power (battery, APS) low voltage or failure
- COM & NC terminals on DigiAir
- DigiAir (ATS) path or communications fault.

Do not run wiring under the PSU board.

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LED Indications

LED Label	LED STATUS		
	ON	Flashing	OFF
Red FLT LED	Battery disconnected Battery charge fail Over voltage output	-	No faults
	Battery power OK	Battery nower OK	No hattery nower
Green OK LED	Mains power OK	but no mains power	and no mains power

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Specifications

Manufacturer	CSL	
	CS1510 - PSU (PSU only)	
Part Numbers	CS5652 - PSU + DigiAir UDL UK/Ire	
	CS5653 - PSU + DigiAir UDL EU	
	CS0710 - Replacement battery	
	This PSU is designed to meet the	
	requirements of:	
	EN50131-1:2006 + A1:2009, Grade 1 & 2 EN50131-6:1998	
	EN50131-10:2014	
Installation Standard	EN50136-2:2013, SP1 & SP2 EN50136:1998 Grade 2 ATS2 = D2, M2,	
	T2, S0, I0	
	EN50136:1998 Grade 2 ATS3 = D2, M2, T2, S1, I1 PD6662:2010	
	PD6662 IA 1501:2015	
EMC standard	EN 61000-6-3	
	EN 50130-4:2011	
	EN 00005:2014 OF EN62368-1:2014	
PSU Type	I 9 9 4 (EN50131-6:1998)	
	1 & 2, Indoor Heated & Indoor General	
lemperature Range	-10 to +40 Centigrade	
Humidity	Less than 75%, non-condensing	
Mains supply	230v +/- 10% AC, 50Hz +/- 5Hz	
Max output current	No more than 1.00A may be continuously	
	drawn from the PSU	
Output ripple	At the max output current and 90% mains	
	supply, max ripple = 50mV	
Low Voltage fault	The FLT output will activate when the	
	output voltage is below 9.60 volts	
AC FLT output	Normally closed (no mains fault), clean	
	contacts. 60 volts, 100mA max	
FLT output	Normally closed (no battery fault), clean	
	contacts. 60 volts, 100mA max	
TAMP output	Normally closed (with lid fitted), clean	
	contacts. 60 volts, 500mA max	