



# IntelliPSU



The IntelliPSU is used to boost the power supply to IntelliData Systems monitoring devices. It resembles an IntelliPoller in appearance, but does not include the device polling intelligence. It includes a 12V supply as standard and additional supplies (such as 24V to power the Rittal door handle) as required.



The logic board in all IntelliData Systems devices is capable of being powered from the RS485 loom that carries the data communications to the IntelliPoller. This means that in the event of the mains power to the monitoring device being lost, the device is still able to actively report such a power loss.

All Type 1 monitoring devices are exclusively powered from the RS485 loom. Type 2 devices, such as the ECO range of products, are normally powered from the local mains supply, but will take power from the RS485 bus when local power is lost.

An IntelliPoller has a current supply capacity for approximately 100 attached devices, depending on the type of device. The system designer must also take into account the voltage drop along a long cable run in deciding whether an auxiliary power supply is required.

The IntelliPSU may be configured to operate in a number of different modes: The normal configuration is for the loom from the poller to be connected to an input on the PSU and the next segment of the loom to be connected to the corresponding output. The IntelliPSU will then switch off the supply(or supplies) to the output when it detects that the incoming supply from the poller has been switched off. The power supply may also be operated in a dioded mode, or in a completely dumb mode where it supplies power to a loom segment regardless of the IntelliPoller status.

The IntelliPSU is fitted with auto-switching redundant mains feeds.



# Technical Specification



## Physical:

Dimensions: 19" (480mm) x 1U (44mm) x 15" (380mm)  
Weight: 5.5kg

## Input:

Mechanical: 2 x C14 sockets  
Voltage: 100-240VAC, 50/60Hz  
Current: 1.3A standard, 3.9A fully fitted  
Rear panel Fuse (20mm): T3.15A standard, T5A fully fitted  
(Individual power supplies within the unit are fused internally at 2A)

## Output:

Mechanical: 4 x 6-way Weidmuller connector  
Voltage: 12V (standard)  
Current: 4A max total (standard)  
1.6A max per connector  
Resettable Fuse: 1.6A per connector  
(Additional internal PSUs may be fitted for additional voltages or additional current capacity).

The internal resettable output fuses may be reset by disconnecting then re-connecting the output connector.

The dimensions and weight include the removable cable management bar.

The rack mounting ears may be positioned at the front or rear of the unit.