



**Power, Monitor**  
Alarm, Report

# Intelligent Power Management

Take control of your power with TSL's range of Power Distribution Units. Our intelligent units provide all the functionality you need to centrally control, manage and configure your rack based equipment. From multi-rack data centres, single rack installations, or both across multiple locations, the units deliver efficiency improvements by enabling the centralisation of engineering functions and early fault diagnosis.

Featuring 14 individually fused outputs in a compact 19" x 1RU form factor, dual inputs with automatic change-over on input supply loss, and a variety of local and remote control, monitoring and alarm options, TSL's intelligent power distribution units provide a robust and reliable power source, and act to minimise system downtime through the quick identification of problems.

With a secure Web interface or SNMP remote management, individual outlets can be switched off from any location to isolate or reboot failed equipment, and huge savings in energy costs can also be made by selectively turning off equipment when not required, for instance, during dark studio periods.

With industry standard SNMP MIBs, the units support any Data Centre Infrastructure Management monitoring software including TSL's own DCIM product **Insite**, offering comprehensive dashboards that deliver an intuitive view of the system status.

Additional functions also protect the downstream equipment during power up, for example, sequential start and programmable delayed start by outlet.

TSL's intelligent PDUs deliver exceptional savings in time and money through the ability to remotely manage, control and configure any infrastructure.



## FEATURES

- ⦿ Secure/Encrypted web browser access (HTTPS)
- ⦿ Always-on front panel colour LCD UI for monitoring and control
- ⦿ State control of each of the 14 individually fused outputs
- ⦿ Current, voltage and power factor measurement for each outlet
- ⦿ Input voltage & total current/power measurement
- ⦿ CLASS I ('billing grade') Measurement accuracy
- ⦿ Sequential, immediate, or user configured delayed start up
- ⦿ Zero-crossing switching
- ⦿ Power loss/restore configuration (All-off/All-on/Last-state)
- ⦿ Fast-configuration via USB, or front panel LCD
- ⦿ Rest API Support
- ⦿ SNMP monitoring & alarms (optional control)
- ⦿ Internal temperature sensor with adjustable alarm limits
- ⦿ External environment monitoring (Temperature/Humidity via 1-wire connection)
- ⦿ Over/under current alarms (configured per outlet)
- ⦿ Fuse failure monitoring with front and rear panel LED indicators
- ⦿ Matching 20A or 32A Neutrik powerCON connectors supplied

## SPECIFICATIONS

	SINGLE SUPPLY UNITS		DUAL SUPPLY UNITS WITH AUTOMATIC CHANGEOVER	
<b>Model IDs (Full Features)</b>	PD14PMiD-20A	PD14PMiD-32A	PD14PMiD-CO-20A	PD14PMiD-CO-32A
<b>INPUTS</b>				
<b>Voltage</b>	110 / 240 V AC		110 / 240 V AC (same nominal voltage expected on both inputs)	
<b>Frequency</b>	60Hz / 50 Hz		60Hz / 50 Hz (inputs should be the same nominal frequency and may be asynchronous)	
<b>Current Rating</b>	20A	32A	20A	32A
<b>Power InConnector(s)</b>	1x Neutrik powerCON 20A	1x Neutrik powerCON 32A	2x Neutrik powerCON 20A	2x Neutrik powerCON 32A
<b>Internal Fuse(s)</b>	1x 20A (10x38mm hrc ceramic)	1x 32A (10x38mm hrc ceramic)	2x 20A (10x38mm hrc ceramic)	2x 32A (10x38mm hrc ceramic)
Note: Units are expected to be protected from over-current condition by upstream circuit breaker. The internal fuses are not intended to be user replaceable.				
<b>OUTPUTS</b>				
<b>Voltage &amp; Frequency</b>	As connected input when active (supply passthrough)		As connected input when active (selected active supply passthrough)	
<b>Power Out Connectors</b>	14x IEC Type F (C13)			
<b>Output Fusing</b>	10A 5x20mm hrc ceramic Each outlet is individually fused – Front panel replaceable in bayonet holder.			
<b>OTHER CONNECTIONS</b>				
<b>USB Data</b>	USB Type A connector: <i>Used for writing logging and loading of firmware to/from USB storage device</i>			
<b>Ethernet</b>	10/100 Ethernet (RJ45 – Lower): network communications for WebUI, SNMP, etc.			
<b>Sensor Link</b>	Multi-purpose connector (RJ45-Upper): 1-Wire for External sensors, RS485 for unit-unit comms (multi-drop), 3x GPI Inputs			
<b>MECHANICAL</b>				
<b>Dimensions</b>	Width: 482.6mm (19.0") (main body width: 445.0mm) Height: 44.4mm (1.8") Depth: 364.0mm (14.3")			
<b>Weight</b>	2.5kg (approx.)			
<b>Colour</b>	TSL Blue (custom)			
<b>Earth Bonding</b>	M6 bonding stud on rear panel adjacent to inlet connector(s) M6 bonding stud on rear cable support arm (right side). All panels are bonded to primary ground point on chassis top panel (internal)			
<b>ENVIRONMENTAL</b>				
<b>Operating Temperature</b>	0-30°C (ambient)			
<b>Humidity</b>	0 – 95 % RH non-condensing			

## ORDERING INFORMATION

Ordering Code	Description
PD14PMiD-20A	14 x IEC C13 Power Manager Intelligent Single Input. 20A total capability
PD14PMiD-32A	14 x IEC C13 Power Manager Intelligent Single Input. 32A total capability
PD14PMiD-CO-20A	14 x IEC C13 Power Manager Intelligent Changeover. 20A total capability
PD14PMiD-CO-32A	14 x IEC C13 Power Manager Intelligent Changeover. 32A total capability

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