

INTRODUCTION TO PRSi LTD AND THE IPOWER RANGE OF PRODUCTS

WHO WE ARE

PRSi Ltd is a UK based supplier of infrastructure and enclosure power solutions for use in data centre and associated environments that have a requirement for power distribution. Working in conjunction with its strategic partner G4MPS Ltd, as the product manufacturer, we source where ever possible UK supplied materials and components for use within all our products. This is particularly so for all key components used with our IPower range of intelligent units.

PRSI Ltd (in conjunction with IPT Ltd) own all the intellectual proprietary hardware and software rights to the IPower brand of intelligent power solutions.

WHAT DO WE DO

In simple terms we manufacture and supply power solutions that are used within data centres or environments where infrastructure or power distribution is required. Primarily through PDU,s (Power Distribution Units) but also through bespoke designs to meet clients specific power related requirements.

The product range of units covers the full spectrum from basic passive power assemblies through to fully remote and network managed solutions.

Our goal is to provide a UK manufactured, competitively priced, technically competent products in a realistic lead time frame to meet clients requirements with the comfort of ongoing support and a 5 year warranty cover.

Should our partners require products customised to complement their particular "brand" this can be supported.

WHAT IS OUR ETHOS

Simply to do as we say and communicate with clients in an honest and straight forward manner. Keeping a breast in the latest standards and product developments to ensure clients receive accurate and up to date guidance and information from which decisions can be made.

To understand our product set that will enable us to provide an none biased technical comparison with other manufacturers.

To ensure that our technical and quality ethos prevails we look to educate and train our production and support personnel on an ongoing basis.

We understand and appreciate our clients and partners are our future and we look to offer support and guidance where ever possible on an ongoing basis irrespective of location or elapsed time.

PRODUCT SET

The range of products we manufacture is wide and varied, below is a summary of the main product types:

PASSIVE PRODUCTS

IPOWER PRODUCTS

IPowerREM

IPowerLITE

IPowerIT RANGE

IPowerATS

IPowerDC

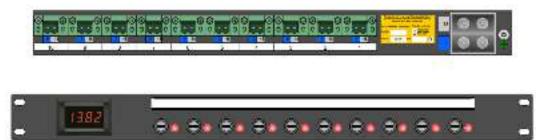
PASSIVE PRODUCT

A full array of basic passive AC PDU,s constructed with any combination of sockets type or socket quantity (C13,C19,UK Schuko etc) in either 1Ph or 3Ph options up to 125V with and without local power monitoring.





In addition to the AC range we also offer a range of DC products



We also manufacturer an array of various other power based products such as splitter, rotary switches and fan tray assembles – if its power related we can manufacture.



IPOWER PRODUCTS

In addition to the above passive solutions our core product set is our intelligent range of power solutions which come under our brand of "IPower".

All key components used within the construction are UK developed, sourced and manufactured. As with the passive units the IPower units can be constructed to meet clients specific requirements.

Within the IPower product set are a range of monitoring options all based around the key objective of providing accurate power monitoring information. This is done by using a calibrated resistor measuring the full wave form providing what we believe to be the most accurate base line information from which other parameters are calculated.

While power monitoring is the primary objective we also integrate within the build a range of environmental and security function commonly used with the environments the products are being used.

Real time alerts and alarms can be set for all key measured parameters whether that be power or environmental and security. (product dependant)

The product set offers a range of management protocols and network interface encryption along with daisy chaining capability of up to 32 individual units over 50 x separate IP address (IPLite and IT versions) Available at no additional cost is our PDU Agent Management Software that provides reports and logging of events.

Remote viewing of the information, and control where applicable. is via the inbuilt HTML WEB browser. Remote access uses the latest level encryption protocols.

Our aim is to provide a simple to configure and use product with no hidden costs therefore all software and support based around the 5 year warranty cover is available at no additional cost.

Built as per the endless range of passive units with regard to socket types and socket quantities we have the following remote monitoring options for consideration:

IPowerREM

Singe phase up to 32A stand alone overall local and remote power monitoring with single point to point network capability. No daisy chaining or environmental capabilities included in this option. This is a cost effective solution as an alternative to a local only power metering solution.



IPowerLITE

Singe phase up to 32A overall local and remote power monitoring with the ability to daisy chaining up to 32 devises along with environmental monitoring and reporting capabilities.



IPower IT Range

The IPower IT range uses the modular construction of boards offering the flexibility of construction using any socket combination and quantity up to 48 sockets (IP2/3 and 4). This uses the same calibrated resister offering the highest possible level of accuracy and available in AC versions up to 63amp in single and 3phase options. The IT range also offers the highest level of encryption and network management protocols.

While accurate power monitoring is the key function of all IPower products the IT range also offers an array of environmental and security capabilities which include:

8 x temperature and 1 x temperature and humidity port

3 x Closed contact connections

1x Remote Display option

Door locking and door open/close ports

USB port for WEB cam connection and other function.

The IT range can be daisy chained with up to 32 devices and the free issued software will support up to 50 IP addresses.

All software is available fee of charge and can be incorporated into 3rd part management platforms by means of the MIB files.

IP1 VERSION

Offers local and remote overall power monitoring along with environmental and security options.



IP2 VERSION

Offers overall and per socket power monitoring along with environmental and security options..



IP3 VERSION

Offers overall and per socket power monitoring and per socket switching along with environmental and security options..



IP4 VERSION

Offers overall and per socket power monitoring and per socket switching with sequence start up along with environmental and security options.



IP5 VERSION

The IP5 range covers all other IPower products that fall outside of the defined IP1 to IP4 construction. These include items such as splitters, in-line units or other customer special requirements. These to can include environmental and security options.



IPowerATS

A range of 32Amp rated Automatic Transfer Switches based upon the IPower platform.



We can also offer the IPower IT range as a DC construction. Individual data sheets on each of the above are available. Full details on the above and to view the HTML page layouts go to www.ipowertech.co.uk

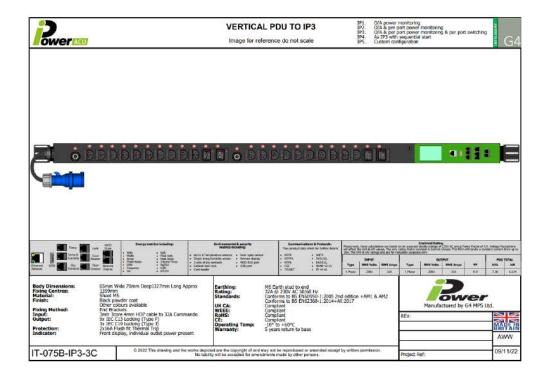
IPowerDC

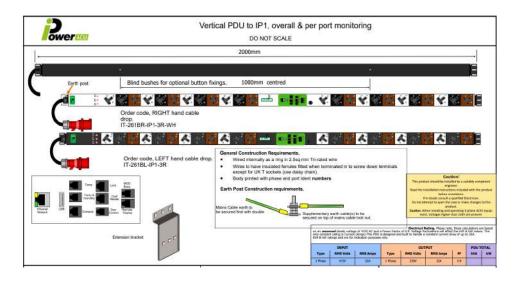
A range of DC Units available to meet customers specific requirements

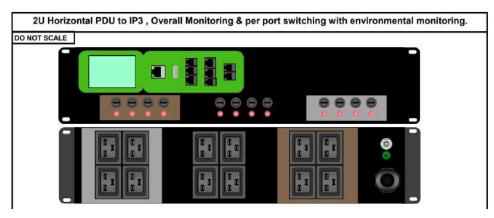


EXAMPLES OF DRAWINGS

A range of 32Amp rated Automatic Transfer Switches based upon the IPower platform.







PRODUCT SUMMERY



	IP1 Overall Monitoring	IP2 Overall + Individual Socket Monitoring	IP3 Overall + Individual Socket Monitoring + Switching	IP4 Overall + Individual Socket Monitoring + Switching	iPLite	iPowerREM	iPower Advanced Control Unit
KEY FLEXIBILITY Standard Build Spec				./	./	./	
Custom Build Capability (NO MOQ)	Ž	Ž	Ž	ž	Ž	Ž	Ž
Custom Design Availability	Short Lead Time	Short Lead Time	Short Lead Time	Short Lead Time	Short Lead Time	Short Lead Time	Short Lead Time
Full Manufacturer / Design Support within UK	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PDU INFO							
Rack Mount Vertical (DU)							
Rack Mount Horizontal (1U+)	V	V	V	V	V	V	✓
Inline Unit	✓	-	-	-	✓	✓	✓
Construction Finish	Mild Steel Powder Coated	Mild Steel Powder Coated	Mild Steel Powder Coated	Mild Steel Powder Coated	Mild Steel Powder Coated	Mild Steel Powder Coated	Mild Steel Powder Coated
Mains Lead	HO7	HO7	HO7	HO7	HO7	HO7	HO7
Lead Length (Standard)	3 Mtr	3 Mtr	3 Mtr	3 Mtr	3 Mtr	3 Mtr ∞	3 Mtr
Maximum Number of Sockets	00	48	48	48	00	00	∞ / 48 Socket Mon Units
Socket Types	C13, C19, Uk, Schuko, Plus Other						
ELECTRICAL CHARACTERISTICS	D-4h	D-4b	D-4b	D-4h	CiI- Dh O-I	CiI- Dh O-l	D-4h
Single / Three Phase Options Main Input	Both 85 - 265 VAC	Both 85 - 265 VAC	Both 85 - 265 VAC	Both 85 - 265 VAC	Single Phase Only 85 - 265 VAC	Single Phase Only 85 - 265 VAC	Both 85 - 265 VAC
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Overall Meter Current Range	0 - 63 Amps	0 - 63 Amps	0 - 63 Amps	0 - 63 Amps	0 - 63 Amps	0 - 32 Amps	0 - 63 Amps
Socket Current Range Overall Meter Accuracy	+/- 1% Typical	0 - 16 Amps +/- 1% Typical	0 - 16 Amps +/- 1% Typical	0 - 16 Amps +/- 1% Typical	+/- 1% Typical	+/- 1% Typical	0 - 16 Amps +/- 1% Typical
OVERALL MEASUREMENT			. ,,	. ,,			
RMS Volts	V	~	~	~	~	~	V
RMS Amps Kilowatts	y ,	Ž.	Y	V	Y	Y	Ź
Frequency	y	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	y	y	· · · · · · · · · · · · · · · · · · ·	· · · · ·
Power Factor	· · · · ·	, ,	,	, ,	, ,	,	, ,
Internal PDU Temperature	V	✓	V	V	V	V	✓
Peak Voltage	V	V	V	✓.	V	V	V
Peak Current kVA	V	V	V	V	V	Y	Y
kVA kWh (Cumulative)	Y	✓	*	√ √	√	· · · · · · · · · · · · · · · · · · ·	✓
Kg/CO2 (Cumulative)	Ž	Ž	Ž	Ž	Ž	Ž	Ž
BTU/h (Cumulative)	V	V	V	V	V	V	✓
KJ/h (Cumulative	V	V	V	V	V	V	V
Cost (Cumulative)	✓	✓	✓	✓	✓	✓	✓
OVERALL METER ACCURACY Class II		./	./	./	./	./	
Billing Quality	Ž	Ž	Ž	Ž	Ž	Ž	Ž
Sampling Rate 4000 times a second	V	V	V	V	V	V	V
INDIVIDUAL SOCKET MEASUREMENT							
Amps Watts	-	V	V	V	-	-	· .
VA VA	-	Ž.	*	ž	-	-	V
kWh (Cumulative)	-	,	· ·	×	-	-	Ž
SOCKET CONTROL							
Individual Socket Switching	-	-	✓	✓	-	-	✓
Individual Socket Power Cycle	-	-	✓	Y	-	-	Y
Sequential Start Up (100 - 5000mS)	-	-	-	×	-	-	✓
Programmable Startup Sequence (IP4 Only)				*			*
CONNECTIVITY							
Web GUI SNMP v1 and v2	<u> </u>	~	· · · · · ·	· ·	· · · · · · · · · · · · · · · · · · ·	· ·	V
SNMP v3	· · · · ·	,	,	× ×	· ·	· ·	· · · ·
HTTP	V	✓	✓	,	✓	✓	✓
HTTPs	V	✓	✓	✓	-	-	✓
XML Email Alasts	V	Y	Y	~	Y	Y	V
Email Alerts IPv4	y	~	· · · · · · · · · · · · · · · · · · ·	· · · · · ·	y	<u> </u>	✓
IPv6	· ·	,	,	,	-	-	· ·
TelNet	V	V	V	v	✓	✓	V
Syslog	V	V	V	✓	-	-	✓
On Board Log Storage	V	~	~	~	-	-	✓
RS485 Modbus - 1 Master up to 31 Slaves	· 🗸	~	~	~			
DISPLAY OPTIONS	•	*	*	*	*	-	*
RGB Display Fitted within PDU	✓ (1U)	✓ (1U)	✓ (1U)	✓ (1U)	~	-	
Remote Display Option	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	¥ ′	<u>\</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	-	V
LED Display	-				-	✓	-
Graphical Display	√ (1.5U+ / Vert)	√ (1.5U+ / Vert)	√ (1.5U+ / Vert)	√ (1.5U+ / Vert)	-	-	✓
	CAPABILITY	ONLY, SENSOR	S / ACCESSORI	ES AVAILABLE S	EPARATELY		
ENVIRONMENTAL SENSORS							
Temperature Sensor Port (Up to 8 Sensors)	~	✓	✓	✓	✓	-	✓
(Up to 8 Sensors) Humidity / Temperature Sensor	V	V	V	~	V	-	V
Volt Free Contacts (3 Sets)	V	V	V	Ż	-	-	V
CABINET SECURITY PORTS							
Door Contacts Electronic Door Handle	٧,	~	~	~	-	-	*
Card Reader / Pin Pads	y	×,	×,	×,			*
OTHER	*	*	*	*			*
USB Port		· ·	· ·		-	-	

GET IN TOUCH

Email: sales@prsi.co.uk

Phone: 0044 7918 111095

Contact through our Middle East representative: sales@deltatec.com