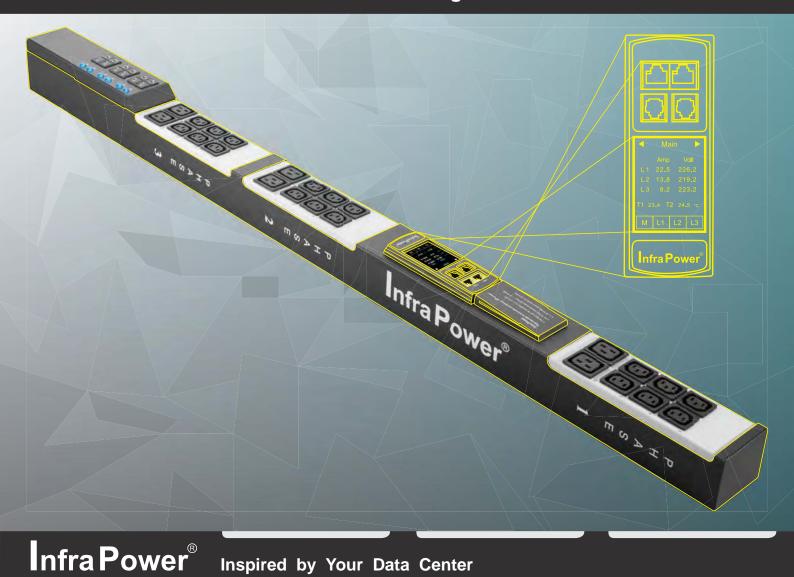
## Intelligent W Series : 3 - Phase 400V



## Inspired by Your Data Center



#### **Three Phase for Rising Power Usage**

High power density has been implemented in applications such as high-end network switches, storage systems and supercomputing. The expansion of centralized computing causes the rack power density to steadily rise in these years. As a result, the demand of Three Phase PDUs with higher power ratings is increasing in data center field.

#### **Infrastructure Power Management**

With today's increasing demand for high technology power management solutions, PDU kWh measurement and the associated software allows data center managers to make key decisions regarding the most efficient use of power.

The ability to maximize power efficiency to reduce cost is high up on the corporate agenda. For 24x7 operation a small increase in efficiency can result in major savings in operating cost.

**W** series PDUs provide the kWh measurement for effective planning of power capacity. Models with outlet level kWh measurement are also available.

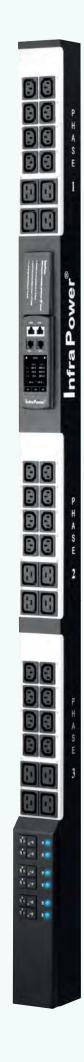
#### **Uptime and Productivity Improvements**

Uptime and productivity improvements are achieved through remote management.

**W** series PDUs support daisy chain connections allowing up to 16 PDUs to be cascaded via Cat6 cables. All the PDUs are remotely accessed via only 1 network IP address.

The free management software provides easy-to-learn tools for the remote management of up to 800 PDUs anywhere around the world. Ultimately, this can help to reduce manpower and travel costs by negating the need for staff to actually be at the equipment location.

2 Phase PDU Family	Moni	tored	Switched	
3-Phase PDU Family	w	Wi	ws	WSi
Outlet AMP - kWh Measurement		~		*
Outlet Switch ON / OFF			~	~
Hot-Swap Meter	~	~	~	~
2.8" Color LCD w/ touchscreen	~	~	~	~
Circuit / Phase Amp - kWh Measurement	~	~	~	~
Phase Balance %	~	~	~	~
Temp-Humid Sensor port x 2	~	~	~	~
16 PDU Levels in Single Daisy Chain	~	~	~	~
One IP Access up to 16 PDU Levels	~	~	~	~
SNMP Capability v2 / v3	~	~	~	~
Free Management Software	~	~	~	~
Lockable IEC Outlet Model	~	~	~	~
Individually Fused Outlet Model	~	~	~	~
63A Model	~			
Local Meter	~	~	~	~
Tool-less Mounting for Vertical PDU	~	~	~	~
0U / 2U Form Factors	~	~	~	~
Hydraulic Magnetic Circuit Breaker	*	~	*	~
Voltage 400V - Amp 16A / 32A	*	~	*	~
Operating Temperature Range -5°C to 60°C	*	~	*	~
Outlet Types : IEC C13	*	~	*	~
IEC C19	*	~	*	*
IEC C13 + C19	*	~	*	*
IEC Lockable	*	*	*	*
IEC Individually Fused	*	*	*	*
UK / UK + IEC	*	*	*	*
SCH / SCH + IEC	*	*	*	*



DEACH

#### Lockable IEC Outlet PDU



Lockable IEC Outlet PDU models are available to secure plugs and prevent accidental disconnection. It is compatible to generic IEC cords and hence cost saving in locking cables.

#### **Fused IEC Outlet PDU**



W Series PDUs are available with the option of individually fused outlets, to help prevent an overload of the active equipment and avoiding short circuiting the entire IEC outlet PDU.

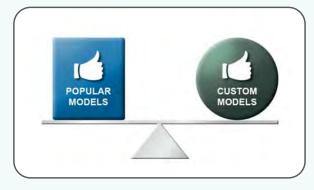


#### Variety of Electrical Configurations



Except for 16A / 32A, sometimes a tremendous amount of computing power is required for equipment mounted in a single rack. Some 63A\* basic PDUs are designed for such high power usage requirements. \* only available for W Monitored models

#### **Broadest Portfolio of Intelligent PDUs**



In addition to supplying cost-effective standard PDU models with a great delivery schedule, competitive custom PDU configurations for specific user requirements are also available on short lead-times.

Field Replaceable Meter & Power Module



Mission critical data centers cannot allow shutdowns for equipment replacement and maintenance, therefore the W meter and power module are field replaceable units that are hot swappable without the need to power down the PDU.

#### **High Metering Accuracy**



The sharp and highly visible display of the 2.8" colour LCD with touch screen functionality provides local data of current (AMP), voltage (Volt), power (KW), energy consumption (KWh), power factor of entire PDU. This data has a metering accuracy to within +/- 1%.





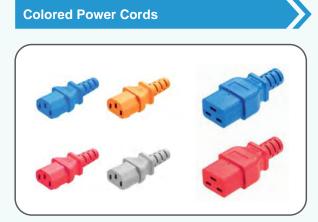
Temperature sensors or temperature and humidity sensors are low profile design with magnetic based for easy installation to rack. External door mount PDU Display shows PDU amps & temperature ( without needing access to the server rack ).

#### **Colored PDU Outlets & Colored Chassis**



Colored PDU outletes or casings allow easy identification of power paths and simplify manageability of main and redundant power sources.

C13 / C19 outlet : Red, Blue & Grey PDU casing : Red, Blue & Black \* Colored outlets for W or Wi series only



 Enhance cable management and visualize power sources

 C13 - C14 6ft
 (1.0 mm²)

 EC-6PC1314-B
 Blue
 EC-6PC1920-B

 EC-6PC1314-R
 Red
 EC-6PC1920-R

 EC-6PC1314-Q
 Orange

 EC-6PC1314-G
 Light Grey

 \* C13 - C14 10ft
 (1.0 mm²) available

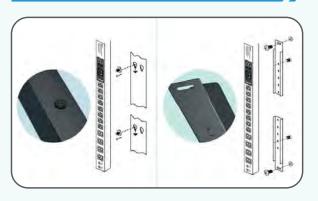
#### **IEC Secure Sleeves**



IEC Sleeves secure the power cord connections to the PDU IEC outlets in a simple and cost efficient way. Sleeve attached to C14 power cord inlet : IPP-SS-C13 (pack of 200) Sleeve attached to C20 power cord inlet : IPP-SS-C19 (pack of 100)



#### **PDU Mounting Options**



InfraPower PDUs are supplied with 2 types of mounting kits; Vertical Button Mounting Kit & Vertical Bracket Mounting Kit. The tool-less kits can be used on the majority of global branded racks.

#### Hydraulic Magnetic Circuit Breaker



MCB is essential for safety operation. Our MCB is a kind of hydraulic magnetic circuit breaker which is bundled by the InfraPower 3-Phase PDU models.

#### W Meter

### W Meter - Advanced & Sophisticated

All **W** series PDU are supplied with a W meter that allows local metering, the ports for PDU daisy chain as well as external sensor / peripheral connection.

- Single & Three Phase PDUs can be inter-cascaded in a single daisy chain.
- Simply connect 1 x IP Dongle to access up to 16 PDUs to save IP address.
- Built-in buzzer will sound when circuit or bank Amp over alarm setting.
- Field replaceable design allows meter replacement without PDU power interruption.



#### Cascade port

• Up to 16 PDU Levels

#### ..... Sensor port x 2

- Temp. Sensor
  - Temp. + Humid. Sensor
- External PDU display

#### 2.8" color LCD

• Featured w/ Touchsceen

#### PDU Monitoring & Setup by Touchscreen

PDU Metering • Amp per Phase / Bank	Amp         Volt           L1         16.0         226.2           L2         8.0         219.2           L3         5.0         223.2           T1         23.4         T2         24.5 °c           L1         L2         L3	<ul> <li>PDU ID ►</li> <li>Group : 045</li> <li>Level : 16</li> <li>M</li> </ul>	<ul> <li>Amp</li> <li>L1</li> <li>16.0</li> <li>B1</li> <li>6.5</li> <li>B2</li> <li>L2</li> <li>8.0</li> <li>B3</li> <li>5.8</li> <li>B4</li> <li>L3</li> <li>5.0</li> <li>B5</li> <li>3.2</li> <li>B6</li> </ul>	<ul> <li>✓ Volt / Bal</li> <li>✓</li> <li>✓</li></ul>
<ul> <li>PDU Metering</li> <li>kWh / kW / KVA / Power Factor</li> <li>Volt</li> <li>Outlet Amp / kWh</li> <li>Temperature &amp; Humidity</li> <li>PDU ID &amp; System info</li> </ul>	Power         ►           Factor         0.50           Active         4.97           Apparent         9.94           299,678.56         kWh           1 Jan 15 / 23:58:40           M	<ul> <li>T H</li> <li>T1</li> <li>23.4 °C</li> <li>T2</li> <li>24.5</li> <li>H1</li> <li>63.4 %</li> <li>H2</li> <li>56.5</li> </ul>	<ul> <li>System</li> <li>Time 23:59:40</li> <li>Date 15 Jan 15</li> <li>F/W ws-400V3B-V7</li> <li>Serial no.</li> <li>2031916058+112-0001</li> <li>Model no.</li> <li>vr24C1312C EN2B-1</li> <li>M</li> </ul>	<ul> <li>Outlet</li> <li>B1</li> <li>✓ 01</li> <li>Amp 10.9</li> <li>KW 1.23</li> <li>B1</li> <li>B2</li> <li>B3</li> </ul>
Phase 1 ( L1 ) • Amp / Volt • kWh / kW / KVA / Power Factor • Amp for Bank 1 & 2 ( 32A PDU ) • Amp for Bank 1 ( 16A PDU )	<ul> <li>▲ L1</li> <li>▲ Amp 22.5</li> <li>B1 16.0</li> <li>B2 6.5</li> <li>kW 2.54</li> <li>volt 226.2</li> <li>M L1 L2 L3</li> </ul>	<ul> <li>▲ L1 Bank</li> <li>▶</li> <li>B 1</li> <li>16.0 Amp</li> <li>Peak Load Amp</li> <li>16.2</li> <li>1 Jan 15 / 23 : 59 : 40</li> <li>M L1 L2 L3</li> </ul>	<ul> <li>L1 Bank</li> <li>B 2</li> <li>6.5 Amp</li> <li>Peak Load Amp 13.2</li> <li>1 Jan 15 / 23:59:40</li> <li>M L1 L2 L3</li> </ul>	✓         L1 Power         ►           Factor         0.50         Active         2.54 км/           Apparent         5.08 км/         119.987.11 kW/h         1 Jan 15 / 23 : 59 : 40           M         L1         L2         L3
Phase 2 ( L2 ) <ul> <li>Amp / Volt</li> <li>kWh / kW / KVA / Power Factor</li> <li>Amp for Bank 3 &amp; 4 ( 32A PDU )</li> <li>Amp for Bank 2 ( 16A PDU )</li> </ul>	<ul> <li>▲ L2 ▲</li> <li>▲ Amp 13.8 B3 8.0 B4 5.8 KW 1.51 Voit 219.2</li> <li>▲ M L1 L2 L3</li> </ul>	<ul> <li>L2 Bank</li> <li>B 3</li> <li>8.0 Amp</li> <li>Peak Load Amp 15.2</li> <li>1 Jan 15 / 23:59:40</li> <li>M L1 L2 L3</li> </ul>	<ul> <li>L2 Bank</li> <li>B 4</li> <li>5.8 Amp</li> <li>Peak Load Amp 12.2</li> <li>1 Jan 15 / 22:59:40</li> <li>M L1 L2 L3</li> </ul>	<ul> <li>▲ L2 Power ▶</li> <li>Factor 0.50</li> <li>Active 1.51 км</li> <li>Apparent 3.02 км</li> <li>107,814.23 kWh</li> <li>Jan 15 / 23:59:40</li> <li>▲ L1 L2 L3</li> </ul>
Phase 3 (L3) • Amp / Volt • kWh / kW / KVA / Power Factor • Amp for Bank 5 & 6 ( 32A PDU ) • Amp for Bank 3 ( 16A PDU )	<ul> <li>▲ L3 ▶</li> <li>Amp 8.2 B5 5.0 B6 3.2</li> <li>kW 0.92 Voit 223.2</li> <li>M L1 L2 L3</li> </ul>	<ul> <li>▲ L3 Bank</li> <li>▶</li> <li>▶</li> <li>▶</li> <li>▶</li> <li>▶</li> <li>▶</li> <li>▶</li> <li>▶</li> <li>■</li> <li>▶</li> <li>■</li> <li< th=""><th><ul> <li>▲ L3 Bank</li> <li>▶ B 6</li> <li>3.2 Amp</li> <li>Peak Load Amp 10.2</li> <li>Jan 15 / 22:59:40</li> <li>M L1 L2 L3</li> </ul></th><th>▲         L3 Power         ▶           Factor         0.50         Active         0.92 км/           Apparent         1.84 км/         1.84 км/           71.877.22         kW/h         1 Jan 15 / 23:59:40           M         L1         L2         L3</th></li<></ul>	<ul> <li>▲ L3 Bank</li> <li>▶ B 6</li> <li>3.2 Amp</li> <li>Peak Load Amp 10.2</li> <li>Jan 15 / 22:59:40</li> <li>M L1 L2 L3</li> </ul>	▲         L3 Power         ▶           Factor         0.50         Active         0.92 км/           Apparent         1.84 км/         1.84 км/           71.877.22         kW/h         1 Jan 15 / 23:59:40           M         L1         L2         L3
Local PDU Setting <ul> <li>PDU Level</li> <li>Meter buzzer</li> <li>Meter screen</li> <li>PDU Outlet ON</li> </ul>	<ul> <li>Level</li> <li>↓</li> <li>↓<!--</th--><th><ul> <li>■ Buzzer</li> <li>■ ON</li> <li>■ ON</li> </ul></th><th><ul> <li>Screen</li> <li>Screen &lt; ON ▷</li> <li>Scan &lt; OFF ▷</li> </ul></th><th><ul> <li>Outlet ON</li> <li>Turn All Outlets ON</li> <li>M</li> </ul></th></li></ul>	<ul> <li>■ Buzzer</li> <li>■ ON</li> <li>■ ON</li> </ul>	<ul> <li>Screen</li> <li>Screen &lt; ON ▷</li> <li>Scan &lt; OFF ▷</li> </ul>	<ul> <li>Outlet ON</li> <li>Turn All Outlets ON</li> <li>M</li> </ul>

# Infra Power®

#### IPM-04 - Free but Powerful

InfraPower Manager IPM-04 is the free, powerful and user friendly PDU management software provided with W Series PDUs.

The Administrator can remotely manage the PDUs and the temperature / humidity sensors via the web browser. The Windows based software consolidates management of max. 800 single & three phase PDUs via 50 IP dongles. 5 concurrent user access licences are part of the IPM-04 bundle, for achieving the demand of multi-user requirements in data center operations.

IPM-04 provides complete PDU monitoring / control and reporting functions for your data center.





	Features			
Capacity	IP Dongle Group (Just 1 for 16 PDU levels)	50		
	PDU Number	800		
	Concurrent Users	5		
Enhanced	Outlet Level kWh & Amp Measurement	~		
Features	Outlet Scheduling	~		
	Energy Consumption (kWh) Monitoring	~		
	Apparent Power (kVA) Monitoring	~		
	Power Factor Measurement			
	Circuit Breaker (MCB) Monitoring			
Basic	Aggregate Current (Amp) Monitoring	~		
Features	Individual Outlet Switch ON/OFF	~		
	Temp-Humid Monitoring	~		
	Alarm Threshold Setting	~		
	Rising Alert Threshold	~		
	Remote Access via Web	~		
	Graphic User Interface	~		
	Reporting	~		
PDU Series	Single & 3 Phase W - Monitored PDU	~		
Support	Single & 3 Phase WI - Monitored PDU (Outlet Measurement)	~		
	Single & 3 Phase WS - Switched PDU	~		
	Single & 3 Phase WSI - Switched PDU (Outlet Measurement)	~		

#### **PDU Monitoring**

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#### Temp. & Humid. Monitoring

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#### **IP Dongle & Daisy Chain**

Patented IP Dongle provides IP remote access to the PDUs by a true network IP address chain. Only 1 x IP dongle allows access to max. 16 PDUs in a single daisy chain.



#### Highly Efficient Application for Your PDU Management

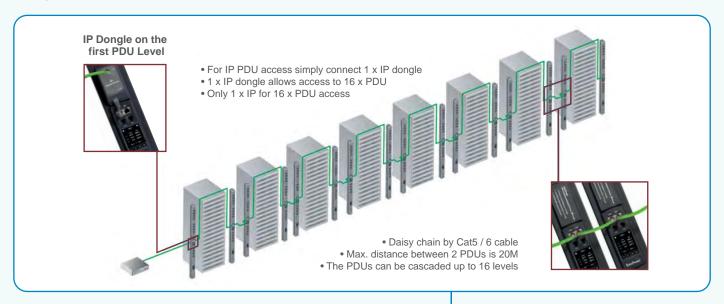
- Patented design
- Hot pluggable for easy integration
- · Allows IP remote access to the PDUs by a single network IP
- One IP dongle supports max. 16 PDUs in daisy chain
- Highly cost effective method to access the intelligent PDUs
- SNMP capability v2 / v3





#### High Density PDU Remote Management

W Series combines highly efficient hardware connection with software remote management for Ultra High Density PDU Remote Management.



#### Save the IP Address Cost of Your Data Center

Free IPM-04 : 50 x IP Group 800 x PDU 5 x Concurrent User **3rd Party DCIM ( via SNMP ) :** Cost-efficient PDU management can be achieved by applying IP dongle & daisy chain





# Infra Power®

#### Vertical - W 16A / 32A

16A/3	16A / 32A 1 in				
				Length	
C13	C19	UK	SCH	mm	
48				1775	
42				1775	
36				1550	
30				1550	
24				1650 *	
18				1650 *	
12				1200 *	
	24			1550	
	18			1650 *	
	12			1425 *	
36	12			1775	
36	6			1775	
30	12			1775	
30	6			1550	
24	12			1550	
24	6			1550	
18	12			1550	
21	3			1325	
18	6			1325	
12	12			1800 *	
12	6			1650 *	
		12		1650 *	
			18	1650 *	
			12	1425 *	

Loc	kable	Length
C13	C19	mm
48		1925
42		1925
36		1700
30		1700
24		1900 *
18		1650 *
12		1425 *
	24	1900 *
	18	1650 *
	12	1200 *
36	12	1925
36	6	1925
30	12	1925
30	6	1700
24	12	1700
24	6	1700
18	12	1700
18	6	1900 *
21	3	1900 *
12	12	1900 *
12	6	1650 *

\* aluminum extrusion

Individu	al Fused	Length
C13	C19	mm
48		1925
42		1925
36		1700
30		1700
24		1900 *
18		1650 *
12		1200 *
	24	1900 *
	18	1650 *
	12	1425 *
36	12	1925
36	6	1925
30	12	1925
30	6	1700
24	12	1700
24	6	1700
18	12	1700
18	6	1900 *
21	3	1900 *
12	12	1900 *
12	6	1650 *

63A				
		Length		
C13	C19	mm		
48		1775		
42		1775		
36		1550		
30		1550		
	24	1550		
36	12	1775		
36	6	1775		
30	12	1775		
30	6	1775		
24	12	1550		
24	6	1550		

18 12

**PDU** List

1550

Vertical - Wi / WS / WSi 16A / 32A 1 inch = 25.4 mm

		Length
C13	C19	mm
48		1925
42		1925
36		1700
30		1700
24		1325
18		1325
	24	1700
	18	1325
	12	1325
	9	1325
	6	1325
36	12	1925
36	6	1925
30	12	1925
30	6	1700
24	12	1700
24	6	1700
18	12	1700
18	6	1325
21	3	1325
12	12	1325
12	6	1325

Loci	kable	Length	Individua
C13	C19	mm	C13
48		1925	48
42		1925	42
36		1700	36
30		1700	30
24		1475	24
18		1475	18
	24	1475	
	18	1475	
	12	1475	
36	12	1925	36
36	6	1925	36
30	12	1925	30
30	6	1700	30
24	12	1700	24
24	6	1700	24
18	12	1700	18
18	6	1475	18
21	3	1475	21
12	12	1475	12
12	6	1475	12

#### I Fused Length C19 mm 1925 1925 1700 1700 1475 1475 24 1700 18 1700 12 1700 12 1925 6 1925 12 1925 1700 6 12 1700 6 1700 12 1700 6 1475 1475 3

#### Horizontal - W / Wi / WS / WSi 16A / 32A

		Height
C13	C19	U
24		2U
18		2U
	12	2U
12	6	2U





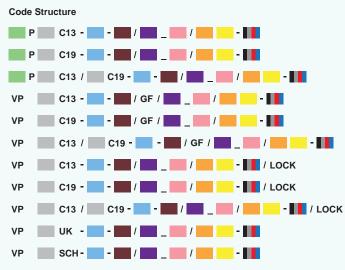
32A Inlet

IEC 60309 6hr Red ( 3P+N+E )

63A Inlet

IEC 60309 6hr Red (3P+N+E)

Intelligent PDU Product Code



Austin Hughes has designed a simple but informative InfraPower product code builder in order to let our clients determine the desired PDU configuration to meet their needs.

12

6

1700 1475

Digit	Indication	Examples
	- Form Factor	V = Vertical H = Horizontal (2U IEC only)
	- Outlet nos	IEC : C13 / C19 / C13 + C19 EURO : UK / SCH
	- Amp	16A / 32A / 63A
	- Series	<ul> <li>W = Monitored</li> <li>Wi = Monitored + Outlet Measurement</li> <li>WS = Switched</li> <li>WSi = Switched + Outlet Measurement</li> </ul>
	- Circuit Protection	CR = Hydraulic Magnetic Circuit Breaker ( MCB ) F = Resettable Fuse
	- Inlet	16A/32A/63A : EN = EN60309
	- Cordset	2 = 2M / 6.56' * Custom length on request
	- Bottom feed or top feed (only for vertical PDU)	B = Bottom feed T = Top feed
	- Colored PDU casing (only for vertical PDU)	1 = Black $2 = White$ $3 = Red$ $4 = Blue$
GF	- Individually Fused	IEC outlets & vertical PDU only
LOCK	- Lockable	IEC outlets & vertical PDU only

#### Accessories

# Infra Power<sup>®</sup>

#### IP Dongle for Vertical PDU

- Patented design
- Hot pluggable for easy integration
- Allows IP remote access to the PDUs by a single network IP
- One IP dongle supports max. 16 PDUs in daisy chain
- Highly cost effective method to access the intelligent PDUs
- SNMP capability v2 / v3



#### Temp. & Humid. Sensor Temp. Sensor

- External sensor with 2M or 4M cord
- Plug & Play
- Low profile design with magnetic base for easy affixing to the rack
- Pair of sensors can be connected to one single W series PDU meter

#### IG-TH01-2M / 4M IG-T01-2M / 4M



#### **External PDU Display**

- Plug & Play
- Support two PDU displays with amp. and temp.
- Adjustable Mounting Kit for easy installation to rack door
- Bundled 3m RJ-11 cable x 2



**IP-ED-02** 

#### **IEC Secure Sleeves**

#### IPP-SS-C13 IPP-SS-C19

Sleeve attached to C14 power cord inlet : IPP-SS-C13 ( pack of 200 )

Sleeve attached to C20 power cord inlet : IPP-SS-C19 ( pack of 100 )

- Secure the power cord connections to the PDU IEC outlets
- · Simple and cost efficient

• 16A - 1-pole 16A Fuse x 3

32A - 1-pole 16A Fuse x 6

63A - 1-pole 30A Fuse x 6

· Overload reset buttons

TUV / CCC / VDE

· Protect load segments for increased

• Safety Regulatory : UL / cUL / CSA /

**Resettable Fuse** 

reliability

#### MCB

- 16A 1-pole 16A MCB x 3 32A - 1-pole 16A MCB x 6 63A - 1-pole 30A MCB x 6
- Hydraulic magnetic circuit breaker
- Overload switch
- Designed to prevent accidental on / off operation
- Safety Regulatory : UL / cUL / TUV / CE

#### **Colored Power Cords**

 Enhance cable management and visualize power sources

# C13 - C14 6ft (1.0 mm²) EC-6PC1314-B Blue EC-6PC1314-R Red EC-6PC1314-O Orange EC-6PC1314-G Light Grey

# C13 - C14 10ft (1.0 mm²) EC-10PC1314-B Blue EC-10PC1314-R Red EC-10PC1314-O Orange EC-10PC1314-G Light Grey



C19 - C20 6ft (1.5 mm<sup>2</sup>) EC-6PC1920-B Blue EC-6PC1920-R Red

#### Vertical Button Mounting Kit Vertical Bracket Mounting Kit

#### VMS:

- Quick and Tool-less integration simplifies PDU installation
- Designed for particular global branded rack with key hole type mounting holes on rear verticals

#### VMB:

- Universal mounting kit supports
   all rack models
- Easy integration by mounting the PDU to the rack cable tray





VMS

VMB



#### Design. Manufacturing. Global Services.

Founded in 1995, **Austin Hughes Electronics Ltd** is a design and manufacturing group that offers a broad range of solutions based around 19 inch rack mount technology. These solutions include InfraSolution remote access control and locking, InfraPower intelligent remote management power solutions, CyberView LCD Keyboard and KVM drawers & InfraCool intelligent remote cooling system.

**Austin Hughes** has ISO14001 and ISO9001 approved design, manufacturing, assembly and test facilities in Hong Kong and China. Austin Hughes supports a worldwide customer base, through its global locations in the Americas, EMEA and APAC and through its extensive authorized channel partner support network.

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