

# **OVERVIEW**

Upgradeable Outlet Level EC Monitored rPDUs provide reliable power distribution to critical IT equipment while delivering a comprehensive view of outlet level power usage via remote network access. Includes environmental monitoring capabilities to obtain real-time environmental metrics. Upgrade the hot-swappable monitoring device on select units to leverage new technologies and accommodate changing business needs.



- Reliable power distribution with local and remote power monitoring options offer quick access to critical power usage information to evaluate energy usage trends and maximize uptime.
- Environmental monitoring capabilities with the addition of optional environmental sensors ensure users have critical infrastructure data at their fingertips to prevent climate-related equipment failure and system downtime.
- Fault-Tolerant
- Every unit is 100% tested for reliability and functionality. Daisy Chaining with RSTP simplifies intelligent rPDU connectivity and ensures data is reported even when a break in the network chain occurs.
   Supports up to 40 rPDUs.
- Daisy-chain up to 50 devices on a single IP address and reduce deployment time with selfconfiguration of downstream devices.





## Part #: NR30203

Model Number: MNR3E1R5-12S203-2TL5A0H10-S

Category: Monitored

Sub Category: Outlet Level

Power Configuration: 20A, 120V, 1.9kW

Physical Configuration: 19in / 483mm, Horizontal

Product Summary: rPDU, Monitored Outlet Level EC, 20A, 120V, 1.9kW, Horizontal, (12) NEMA 5-20R, 10ft

/ 3m power cord with L5-20P, Black Powder Coat.

**Monitoring:** Input and Outlet power monitoring. Environmental monitoring via optional remote

sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.

Plug Form: Receptacle:

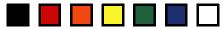




L5-20P

NEMA 5-20R (Quantity: 12)

#### **Chassis Color Options:**



## **Product Specification and Options**

### **System Features**

Power Measurements Compliant with ANSI C12.1 and IEC 62053- 21 at 1% Accuracy Class Requirements  Outlet Monitoring Outlet Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053- 21 at 1% Accuracy Class Requirements.  Quantity Of Inputs 1 Voltage 100-120V  Current 20A  VA per Input (Load Capacity) 1.9kW (120V)  Frequency 50/60Hz  Over Current Protection None  Switch No Scrolling / Rotatable Digital Display Yes Indicators - LED(s) 12 Power Cable Wire Gauge 12/3 Power Cable Length 10ft / 3m Power Entry Location Left Rear Plug Type NEMA L5-20P Twistlock Receptacle/Socket Type #1 - Quantity on Rear 12 - Style Individual - Voltage per Receptacle/Socket DHCP, HTTP, HTTPS, IPV4, IPV6, LDAP, NTP, RADIUS, RSTP,	System Features	
Power Measurements Compliant with ANSI C12.1 and IEC 62053- 21 at 1% Accuracy Class Requirements  Outlet Monitoring  Outlet Monitoring (kWh, W, VA, PF, V, A)  Power Measurements Compliant with ANSI C12.1 and IEC 62053- 21 at 1% Accuracy Class Requirements.  Ouantity Of Inputs  1  Volitage 100-120V  Current 20A  VA per Input (Load Capacity) 19kW (120V)  Frequency 50/60Hz  Over Current Protection None  Switch No Scrolling / Rotatable Digital Display Yes Indicators - LED(s) 12  Power Cable Wire Gauge 12/3  Power Cable Length 10ft / 3m  Power Entry Location Left Rear  Plug Type NEMA L5-20P Twistlock  Receptacle/Socket Type #1 NEMA 5-20R  - quantity on Rear - style Individual  - voltage per Receptacle/Socket 120V  Network Connection Dual 10/100/1000Mbps Ethernet  Drotecols Supported Drick, HTTP, HTTPS, IPV4, IPV6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (vII/v2c/v3), Syslog, TACACS+, Modbus TCP  Data Access Formats CSV datalog, JSON API, JSON datalog  USB Support Yes  Briad Reboot Button Yes  Serial Connection RS232 via RJ45  Remote Sensor RJ Connection Jacks Maximum Operating Temperature 60C / 140F  Heavy Steel - Powder Coat Finish Black Configuration 19in / 483mm Horizontal Rackmount Adjustable Mount Brackets Yes	Monitoring	via optional remote sensors. Daisy chain Ethernet connectivity.
21 at 1% Accuracy Class Requirements	Input Monitoring	Phase (A) Monitoring (kWh, W, VA, PF, V, A)
Power Measurements Compliant with ANSI C12.1 and IEC 62053- Z1 at 1% Accuracy Class Requirements.  1 Voltage 100-120V  Current 20A  VA per Input (Load Capacity) 1.9kW (120V)  Frequency 50/60Hz  Over Current Protection None  Switch No  Scrolling / Rotatable Digital Display Yes Indicators - LED(s) 12  Power Cable Wire Gauge 12/3  Power Cable Length 10ft / 3m  Power Entry Location Left Rear  Plug Type NEMA L5-20P Twistlock  Receptacle/Socket Type #1 NEMA 5-20R  - Quantity on Rear 12  - Voltage per Receptacle/Socket 120V  Network Connection Dual 10/100/1000Mbps Ethernet  Protocols Supported DHCP, HTTP, HTTPS, IPV4, IPV6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (vft/v2e/v3), Syslog, TACACS+, Modbus TCP  Data Access Formats CSV datalog, JSON API, JSON datalog  USB Support Yes  IP Reset Button Yes  Remote Sensor RJ Connection Jacks 1(Supports up to 16 Sensors)  Maximum Operating Temperature 60C / 140F  Heavy Steel - Powder Coat Finish Black  Configuration 19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets Yes		Power Measurements Compliant with ANSI C12.1 and IEC 62053- 21 at 1% Accuracy Class Requirements
21 at 1% Accuracy Class Requirements.	Outlet Monitoring	Outlet Monitoring (kWh, W, VA, PF, V, A)
Voltage         100-120V           Current         20A           VA per Input (Load Capacity)         1.9kW (120V)           Frequency         50/60Hz           Over Current Protection         None           Switch         No           Scrolling / Rotatable Digital Display         Yes           Indicators - LED(s)         12           Power Cable Wire Gauge         12/3           Power Cable Length         10ft / 3m           Power Entry Location         Left Rear           Plug Type         NEMA L5-20P Twistlock           Receptacle/Socket Type #1         NEMA 5-20R           - Quantity on Rear         12           - Style         Individual           - Voltage per Receptacle/Socket         120V           Network Connection         Dual 10/100/1000Mbps Ethernet           Protocols Supported         DHCP, HTTP, HTTPS, IPV4, IPV6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1/v2c/v3), Syslog, TACACS+, Modbus TCP           Data Access Formats         CSV datalog, JSON API, JSON datalog           USB Support         Yes           USB Support         Yes           USB Support         Yes           Hard Reboot Button         Yes           Serial Connection         RS232 via RJ45		Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements.
Current         20A           VA per Input (Load Capacity)         1.9kW (120V)           Frequency         50/60Hz           Over Current Protection         None           Switch         No           Scrolling / Rotatable Digital Display         Yes           Indicators - LED(s)         12           Power Cable Wire Gauge         12/3           Power Cable Length         10ft / 3m           Power Entry Location         Left Rear           Plug Type         NEMA L5-20P Twistlock           Receptacle/Socket Type #1         NEMA 5-20R           -Quantity on Rear         12           -Style         Individual           -Voltage per Receptacle/Socket         120V           Network Connection         Dual 10/100/1000Mbps Ethernet           Protocols Supported         DHCP, HTTP, HTTPS, IPv4, IPv6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SMMP (v1/v2c/v3), Syslog, TACACS+, Modbus TCP           Data Access Formats         CSV datalog, JSON API, JSON datalog           USB Support         Yes           USB Support         Yes           Hard Reboot Button         Yes           Serial Connection         RS232 via RJ45           Remote Sensor RJ Connection Jacks         1 (Supports up to 16 Sensors)           Maximu	Quantity Of Inputs	1
VA per Input (Load Capacity)  1.9kW (120V)  Frequency  50/60Hz  Over Current Protection  None  Switch  No  Scrolling / Rotatable Digital Display  Yes  Indicators - LED(s)  12  Power Cable Wire Gauge  12/3  Power Cable Length  10ft / 3m  Power Entry Location  Left Rear  Plug Type  NEMA L5-20P Twistlock  Receptacle/Socket Type #1  NEMA 5-20R  - Quantity on Rear  12  - Style  Individual  - Voltage per Receptacle/Socket  120V  Network Connection  Dual 10/100/1000Mbps Ethernet  DHCP, HTTP, HTTPS, IPV4, IPV6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1/v2c/v3), Syslog, TACACS+, Modbus TCP  Data Access Formats  CSV datalog, JSON API, JSON datalog  USB Support  Yes  IP Reset Button  Yes  Serial Connection  RS232 via RJ45  Remote Sensor RJ Connection Jacks  Maximum Operating Temperature  60C / 140F  Heavy Steel - Powder Coat Finish  Black  Configuration  19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets  Yes	Voltage	100-120V
Frequency 50/60Hz Over Current Protection None  Switch No Scrolling / Rotatable Digital Display Yes Indicators - LED(s) 12 Power Cable Wire Gauge 12/3 Power Cable Length 10ft / 3m Power Entry Location Left Rear Plug Type NEMA L5-20P Twistlock Receptacle/Socket Type #1 NEMA 5-20R - Quantity on Rear 12 - Style Individual - Voltage per Receptacle/Socket 120V Network Connection Dual 10/100/1000Mbps Ethernet Protocols Supported DHCP, HTTP, HTTPS, IPv4, IPv6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1/v2c/v3), Syslog, TACACS+, Modbus TCP Data Access Formats CSV datalog, JSON API, JSON datalog USB Support Yes IP Reset Button Yes Hard Reboot Button Yes Serial Connection RS232 via RJ45 Remote Sensor RJ Connection Jacks 1 (Supports up to 16 Sensors) Maximum Operating Temperature 60C / 140F Heavy Steel - Powder Coat Finish Black Configuration 19in / 483mm Horizontal Rackmount Adjustable Mount Brackets Yes	Current	20A
Over Current Protection None  Switch No  Scrolling / Rotatable Digital Display Yes  Indicators - LED(s) 12  Power Cable Wire Gauge 12/3  Power Cable Length 10ft / 3m  Power Entry Location Left Rear  Plug Type NEMA L5-20P Twistlock  Receptacle/Socket Type #1 NEMA 5-20R  - Quantity on Rear 12  - Style Individual  - Voltage per Receptacle/Socket 120V  Network Connection Dual 10/100/1000Mbps Ethernet  Protocols Supported DHCP, HTTP, HTTPS, IPv4, IPv6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1/v2c/v3), Syslog, TACACS+, Modbus TCP  Data Access Formats CSV datalog, JSON API, JSON datalog  USB Support Yes  IP Reset Button Yes  Hard Reboot Button Yes  Serial Connection RS232 via RJ45  Remote Sensor RJ Connection Jacks 1 (Supports up to 16 Sensors)  Maximum Operating Temperature 60C / 140F  Heavy Steel - Powder Coat Finish Black  Configuration 19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets Yes	VA per Input (Load Capacity)	1.9kW (120V)
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Scrolling / Rotatable Digital Display  Yes  Indicators - LED(s)  12  Power Cable Wire Gauge  12/3  Power Cable Length  10ft / 3m  Power Entry Location  Left Rear  Plug Type  NEMA L5-20P Twistlock  Receptacle/Socket Type #1  NEMA 5-20R  - Quantity on Rear  12  - Style  Individual  - Voltage per Receptacle/Socket  120V  Network Connection  Dual 10/100/1000Mbps Ethernet  Protocols Supported  DHCP, HTTP, HTTPS, IPV4, IPV6, LDAP, NTP, RADIUS, RSTP, SSH, SMTP, SNMP (v1/v2c/v3), Syslog, TACACS+, Modbus TCP  Data Access Formats  CSV datalog, JSON API, JSON datalog  USB Support  Yes  IP Reset Button  Yes  Serial Connection  RS232 via RJ45  Remote Sensor RJ Connection Jacks  Maximum Operating Temperature  60C / 140F  Heavy Steel - Powder Coat Finish  Black  Configuration  19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets  Yes	Over Current Protection	None
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Serial Connection RS232 via RJ45  Remote Sensor RJ Connection Jacks 1 (Supports up to 16 Sensors)  Maximum Operating Temperature 60C / 140F  Heavy Steel - Powder Coat Finish Black  Configuration 19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets Yes	IP Reset Button	Yes
Remote Sensor RJ Connection Jacks 1 (Supports up to 16 Sensors)  Maximum Operating Temperature 60C / 140F  Heavy Steel - Powder Coat Finish Black  Configuration 19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets Yes	Hard Reboot Button	Yes
Maximum Operating Temperature 60C / 140F  Heavy Steel - Powder Coat Finish Black  Configuration 19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets Yes	Serial Connection	RS232 via RJ45
Heavy Steel - Powder Coat Finish  Configuration  19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets  Yes	Remote Sensor RJ Connection Jacks	1 (Supports up to 16 Sensors)
Configuration 19in / 483mm Horizontal Rackmount  Adjustable Mount Brackets Yes	Maximum Operating Temperature	60C / 140F
Adjustable Mount Brackets Yes	Heavy Steel - Powder Coat Finish	Black
·	Configuration	19in / 483mm Horizontal Rackmount
Country of Origin USA, TAA Compliant and Buy American Act COTS Compliant	Adjustable Mount Brackets	Yes
	Country of Origin	USA, TAA Compliant and Buy American Act COTS Compliant

Product Warranty	5-year limited warranty if registered within 120 days of purchase, otherwise warranty defaults to 3 years
Certification/Agency Approvals	RoHS Compliant
Certification/Agency Approvals	FCC Part 15 Class A Conformance
Certification/Agency Approvals	UL & c-UL Listed 62368-1
Chassis Dimensions (HxWxD)	1.72in x 17in x 12in / 44mm x 432mm x 305mm
Shipped Weight	10lbs (4.54kg)