POWERLOK RACK PDU SPECIFICATION
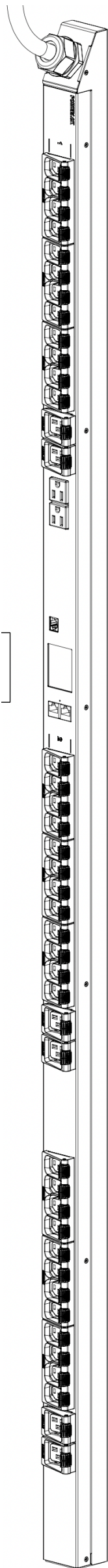
MONITORED VERSIONS ONLY

Specific Configurations

COLOR	CARBON		RED		WHITE		BLUE	
WHIP LENGTH	6 FT	10 FT	6 FT	10 FT	6 FT	10 FT	6 FT	10 FT
SWITCHED READY MODEL	UP8331S-06C	UP8331S-10C	UP8331S-06R	UP8331S-10R	UP8331S-06W	UP8331S-10W	UP8331S-06B	UP8331S-10B
MONITORED MODEL	UP8331M-06C	UP8331M-10C	UP8331M-06R	UP8331M-10R	UP8331M-06W	UP8331M-10W	UP8331M-06B	UP8331M-10B
BASIC MODEL	UP8331B-06C	UP8331B-10C	UP8331B-06R	UP8331B-10R	UP8331B-06W	UP8331B-10W	UP8331B-06B	UP8331B-10B
DESCRIPTION	RACK PDU, 72", 20A 120/208V WYE 3PH, 48-C13, L21-20P, CORDLOK							
POWER	20A 120/208V WYE 3PH (5.7 kW)							
PLUG TYPE	L21-20P							
UNIT LENGTH	72 INCHES							
RECEPTACLES	48-C13							
CORDLOK	YES							

Universal Specification

Over Current Protection	None
Power Whip	See PDU Ratings Table - page 2
Heavy Steel - Powder Coat Color	Per PowerLok specific configuration for color
Rack PDU Type	Vertical Rack-mount
Toolless Mounting: Center Spacing	61.25"
Manufactured in the USA	Yes
Product Warranty	3-year from date of shipment, repair or replace.
Certification/Agency Approvals	TUV Certified to UL/CSA 60950-1 with NOM Addendum for Mexico, FCC Part 15 Class A conformance, RoHS compliant
Operating Environment	0-60C (32-149F), 5-95% relative humidity, 0-10,000ft (0-3000 meters) elevation.
Storage Environment	-25-65C (-13-149F), 5-95% relative humidity, 0-10,000ft (0-3000 meters) elevation.
Chassis Dimensions (LxWxD)	72.0"L x 2.18"W x 2.0"D
Package Dimensions (LxWxD)	80.0"L x 22.0"W x 4.8"D (3&4-Pack), 80.0"L x 11.0"W x 4.8"D (1&2-Pack)
Pallet Dimensions (LxWxD)	82"L x 44"W x 5.0"D
Rack PDU Weight	15.0 lbs.
Packaged Weight (each)	17.0 lbs.

Monitored & Switched Versions Only

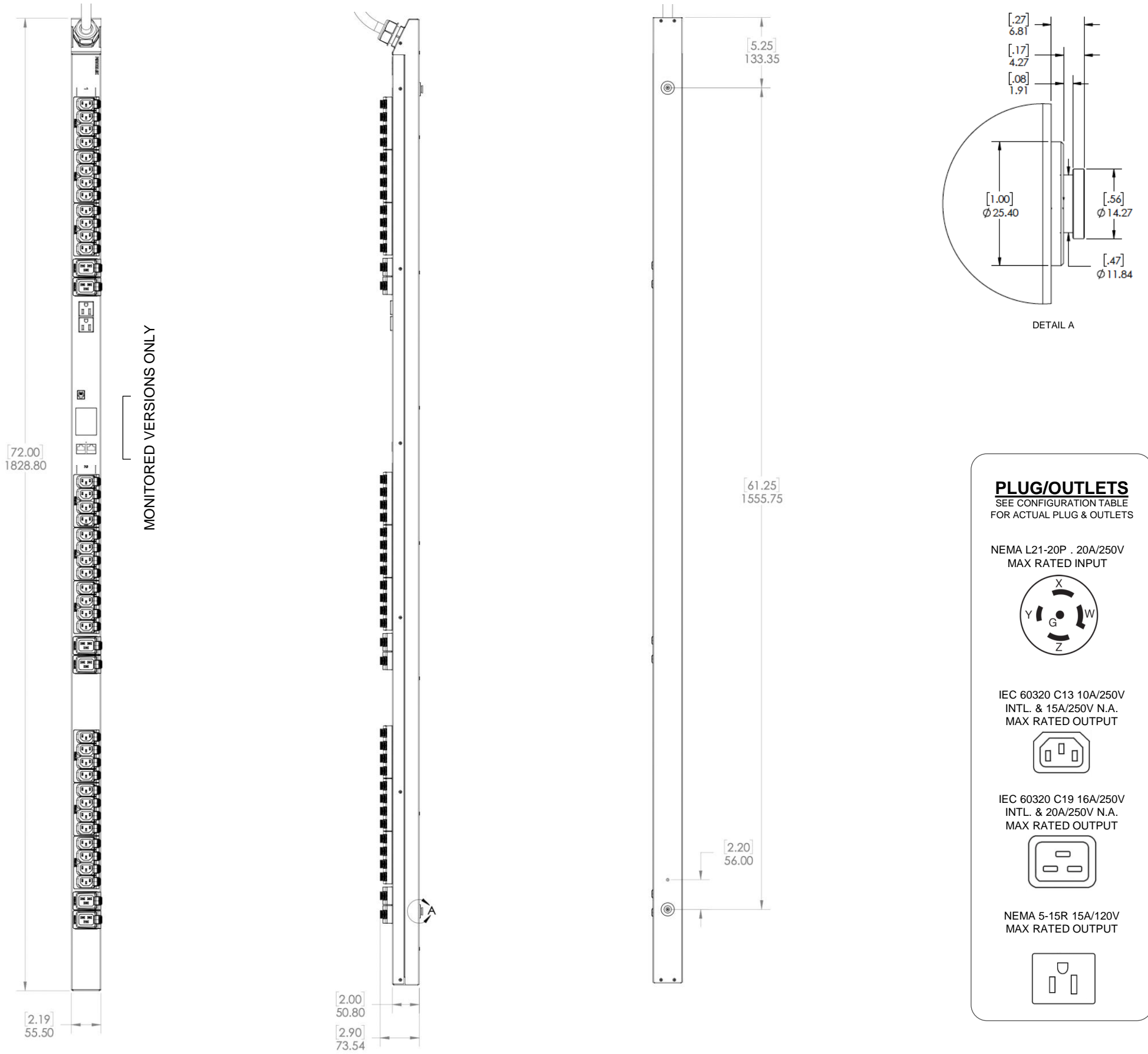|	
MONITORING TYPE:	REMOTE & TOUCHSCREEN DISPLAY, ENVIROLOK READY. SWITCHED READY
Monitoring Accuracy	Voltage: +/- 0.5% at nominal. Current: within 0.5% from 1A to 30A typical. +/1% of measurement from 500mA to 30A.
Total Unit & Group Monitoring	Aggregate (kWh, W, VA) plus Phase: A, B, C Line Currents, plus Group: 1, 2, 3 Monitoring (kWh, W, VA, PF, V, A)
Network Interface	Ethernet RJ-45, 10 Mbit/s, 100 Mbit/s
Transport/Internet	TCP/IP v4, v6
Network Applications	HTTP/HTTPS Webserver SNMP-V1/V2c/V3 Network Management DHCP for dynamic IP address request from a server on the network. Remote firmware upgrade using FTP.
Touch & Rotatable Digital Display	Touch to rotate / touch to view data screens
Internal RMS Voltage Sensor	Yes
Internal RMS Current Sensor	Yes
Environmental Monitoring	Optional EnviroLok daisy chain temp/humidity (optional - up to 4 sensors). Monitoring accuracy +/- 0.2C and +/- 2% Rh.

Example receptacle configuration shown. See specific configuration table.

OUTLINE DRAWING

MONITORED VERSIONS ONLY

72.00
1828.80

2.19
55.50

5.25
133.35

61.25
1555.75

2.20
56.00

2.00
50.80

2.90
73.54

[.27] 6.81
[.17] 4.27
[.08] 1.91
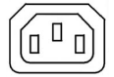
[1.00] Ø 25.40
[.56] Ø 14.27
[.47] Ø 11.84

DETAIL A

PLUG/OUTLETS
SEE CONFIGURATION TABLE
FOR ACTUAL PLUG & OUTLETS
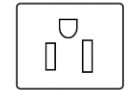
NEMA L21-20P . 20A/250V
MAX RATED INPUT

IEC 60320 C13 10A/250V
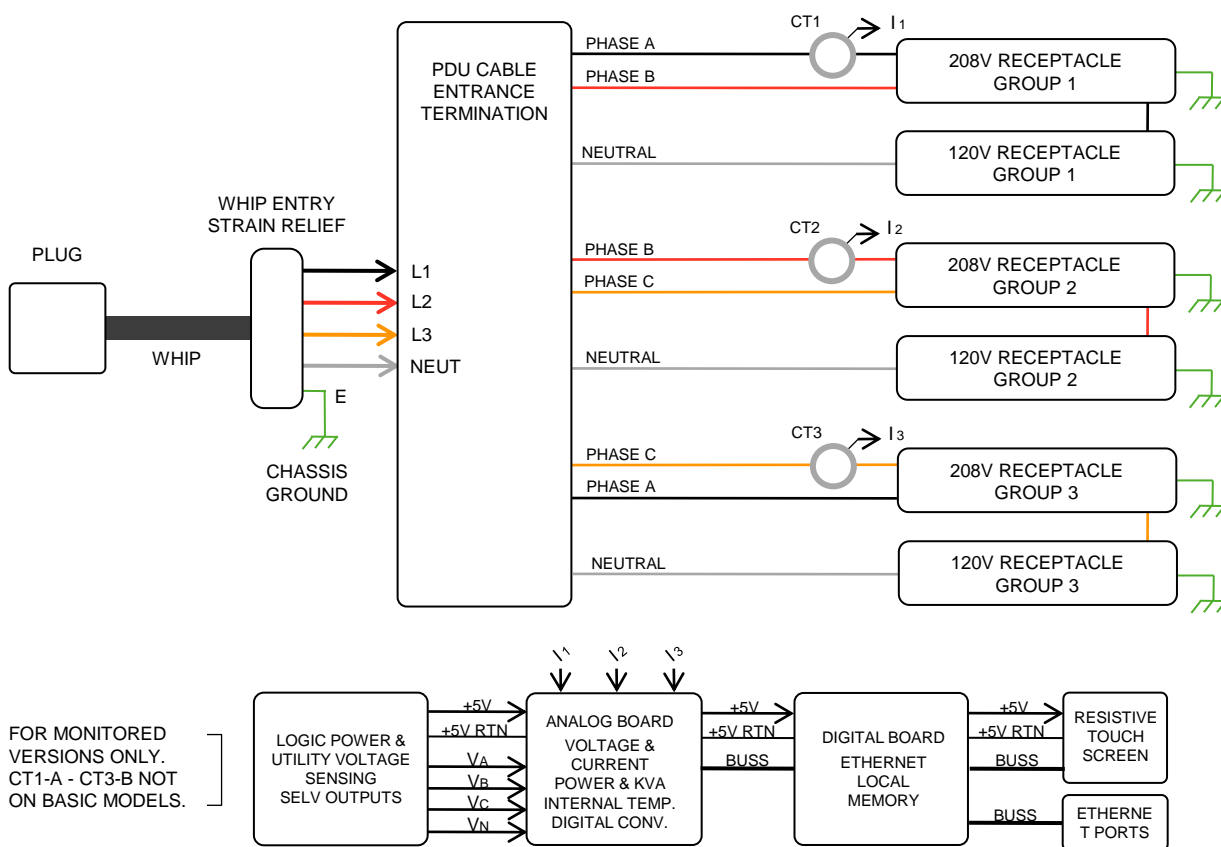INTL. & 15A/250V N.A.
MAX RATED OUTPUT

IEC 60320 C19 16A/250V
INTL. & 20A/250V N.A.
MAX RATED OUTPUT

NEMA 5-15R 15A/120V
MAX RATED OUTPUT

PDU WIRING DIAGRAM & RATINGS TABLE

PLUG

WHIP

WHIP ENTRY
STRAIN RELIEF

CHASSIS
GROUND

L1
L2
L3
NEUT
E

PDU CABLE
ENTRANCE
TERMINATION

PHASE A
PHASE B
CT1 I₁
208V RECEPTACLE GROUP 1

NEUTRAL
120V RECEPTACLE GROUP 1

PHASE B
PHASE C
CT2 I₂
208V RECEPTACLE GROUP 2

NEUTRAL
120V RECEPTACLE GROUP 2

PHASE C
PHASE A
CT3 I₃
208V RECEPTACLE GROUP 3

NEUTRAL
120V RECEPTACLE GROUP 3

FOR MONITORED
VERSIONS ONLY.
CT1-A - CT3-B NOT
ON BASIC MODELS.

LOGIC POWER &
UTILITY VOLTAGE
SENSING
SELV OUTPUTS

+5V
+5V RTN
V_A
V_B
V_C
V_N

ANALOG BOARD
VOLTAGE &
CURRENT
POWER & KVA
INTERNAL TEMP.
DIGITAL CONV.

I₁ I₂ I₃

+5V
+5V RTN
BUSS

DIGITAL BOARD
ETHERNET
LOCAL
MEMORY

+5V
+5V RTN
BUSS

BUSS

RESISTIVE
TOUCH
SCREEN

ETHERNET PORTS

INPUT POWER:	
WHIP TYPE	12GA 5-WIRE SOOW
VOLTAGE	120/208V WYE 3PH
FREQUENCY	50/60 HZ
RATED AMPS	20A
MAX CONT. AMPS	16A
OUTPUT POWER:	
GROUP 1	PH A-B 16A MAX CONT.
GROUP 2	PH B-C, 16A MAX CONT.
GROUP 3	PH C-A, 16A MAX CONT.

MADE AND ROBOTICALLY SOLDERED IN THE USA

*CUSTOMER SIGNATURE: DATE:

*PRIOR TO MANUFACTURING, BUILD MODELS REQUIRE CUSTOMER SIGN-OFF. BY SIGNING, CUSTOMER AGREES THAT THIS ORDER IS NON-CANCELABLE AND NON-RETURNABLE.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM AND TOLERANCES ARE:
X = +/- 0.5
.X = +/- 0.25
.XX = +/- 0.13
X° = +/- 0.5°

POWERLOK
Upsite Technologies

TITLE:
RACK PDU SPECIFICATION

DRAWING NUMBER:	SHEET:
SP-UP8331	**2 OF 2**