GREAT LAKES RACK PDU SPECIFICATION
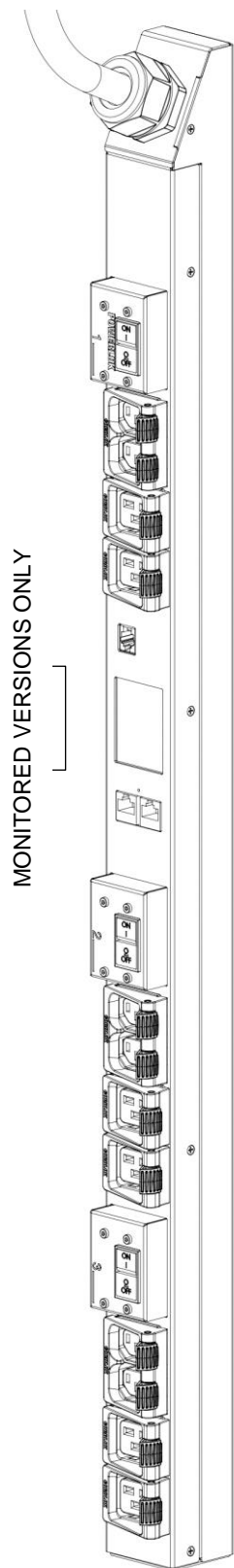
Specific Configurations

COLOR	CARBON		RED		WHITE		BLUE	
WHIP LENGTH	6 FT	10 FT	6 FT	10 FT	6 FT	10 FT	6 FT	10 FT
MONITORED MODEL	GL8451M-06C	GL8451M-10C	GL8451M-06R	GL8451M-10R	GL8451M-06W	GL8451M-10W	GL8451M-06B	GL8451M-10B
SWITCHED READY MODEL	GL8451S-06C	GL8451S-10C	GL8451S-06R	GL8451S-10R	GL8451S-06W	GL8451S-10W	GL8451S-06B	GL8451S-10B

DESCRIPTION	RACK PDU, 36", 35A 208/240V DELTA 3PH, 15-C13, CS8365C, CORDLOK
MONITORING	REMOTE COMM & UNIT DISPLAY, ENVIROLOK READY
SWITCHING	REMOTE COMM & UNIT DISPLAY, ENVIROLOK READY, SWITCHLOK READY
POWER	35A 208/240V 3PH (11.2 kW)
PLUG TYPE	CS8365C
UNIT LENGTH	36 INCHES
RECEPTACLES	15-C13
CORDLOK	YES

Universal Specification

Over Current Protection	20A UL489 magnetic breakers
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	24.50"
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)	35.98"L x 2.18"W x 2.0"D
Package Dimensions (LxWxD)	49.0"L x 22.0"W x 4.8"D (3&4-Pack), 49.0"L x 11.0"W x 4.8"D (1&2-Pack)
Pallet Dimensions (LxWxD)	49"L x 44"W x 5.0"D
Rack PDU Weight	11.3 lbs
Packaged Weight (each)	13.3 lbs

Monitored & Switched Versions Only

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.

MONITORED VERSIONS ONLY

Example drawing shown. See table for actual receptacle configuration.

OUTLINE DRAWING

MONITORED VERSIONS ONLY

[36.00]
914.40

[2.19]
55.50

[.63]
15.92

[5.37]
136.27

[.75]
19.05

[24.50]
622.30

A

[.75]
19.05

[5.49]
139.40

[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

CS8365C 3P4W 50A/250V
40A DERATED 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 L6-30R . 30A/250V
MAX RATED OUTPUT

PDU WIRING DIAGRAM & RATINGS TABLE

PLUG

WHIP

WHIP ENTRY
STRAIN RELIEF

CHASSIS
GROUND

PDU CABLE
ENTRANCE
TERMINATION

L1
L2
L3
E

PHASE A
PHASE B
CB1
CT1
I_1
RECEPTACLE GROUP 1

PHASE B
PHASE C
CB2
CT2
I_2
RECEPTACLE GROUP 2

PHASE C
PHASE A
CB3
CT3
I_3
RECEPTACLE GROUP 3

FOR MONITORED
VERSIONS ONLY.
CT1-3 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.

I_1 I_2 I_3

+5V
+5V RTN
BUSS

DIGITAL BOARD
ETHERNET
LOCAL
MEMORY

+5V
+5V RTN
BUSS

BUSS

RESISTIVE
TOUCH
SCREEN

ETHERNE
T PORTS

INPUT POWER:	
WHIP TYPE	8GA 4-WIRE SOOW
VOLTAGE	208/240V DELTA 3PH
FREQUENCY	50/60 HZ
RATED AMPS	35A
MAX CONT.AMPS	28A
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

GREAT LAKES

*CUSTOMER SIGNATURE:	DATE:	UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM AND TOLERANCES ARE:	Great Lakes Data Racks and Cabinets

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

X = +/- 0.5
.X = +/- 0.25
.XX = +/- 0.13
X" = +/- 0.5"

TITLE:
RACK PDU SPECIFICATION

DRAWING NUMBER:	SHEET:
SP-GL8451	**2 OF 2**

THIS SPECIFICATION AND ITS CONTENTS ARE THE PROPERTY OF GREAT LAKES DATA RACKS AND CABINETS AND SHALL NOT BE COPIED OR REPRODUCED FOR ANY PURPOSES OTHER THAN APPLICATION OF PRODUCT MANUFACTURED BY GREAT LAKES. THI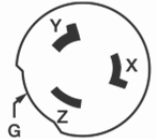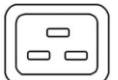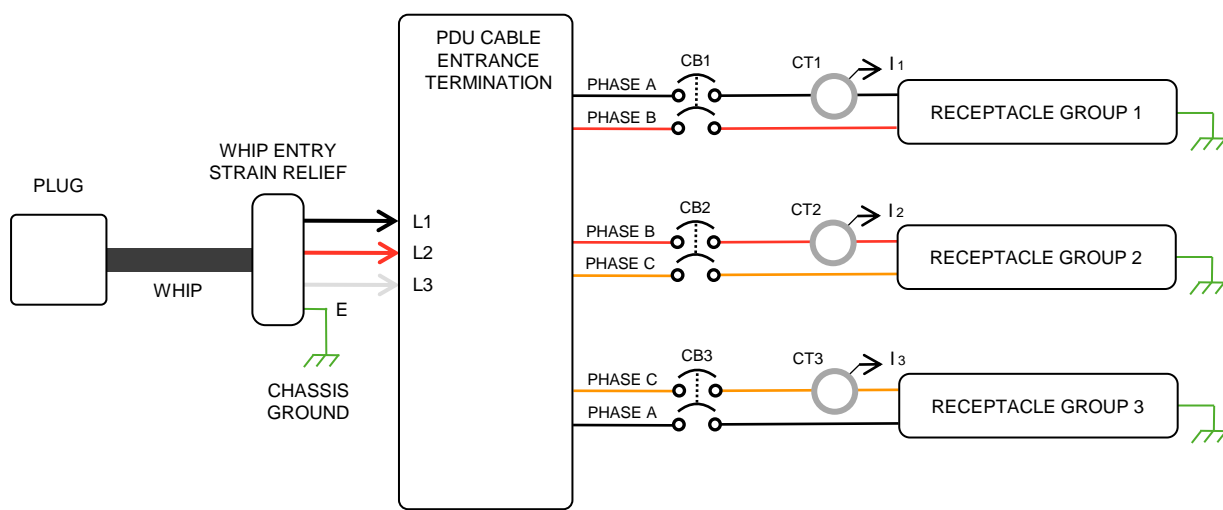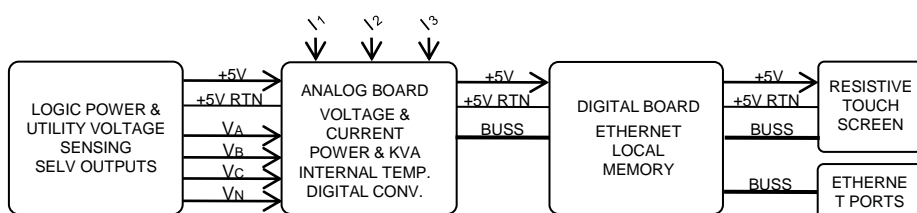S DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE.