# **Technical Specifications**

### **Configurable Power Distribution Unit**

InfraStruxure PDU, 150 kVA, 416A, 480V:208V Isolation Transformer, 84 Poles, 1 Subfeed





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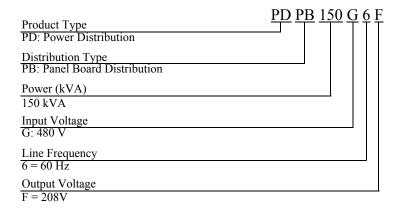
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# **Technical Data**

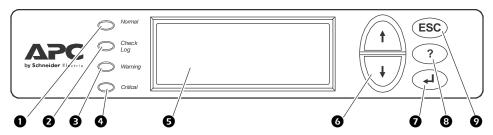
### **Model Nomenclature**

Configurable PDU Model Number parameters:



# **Communication and Management**

### **Display Interface**



0	Normal LED	Green = no alarms are present.	
0	Check Log LED	Green = a new event has been added to the log.	
8	Warning LED	Yellow = there are one or more active warning alarms in the system.	
4	Critical LED	Red = there are one or more active critical alarms in the system.	
9	LCD Screen	Displays alarms, status data, instructional help, and configuration items.	
6	UP and DOWN keys	Used to scroll through menu items.	
0	ENTER	Press to display new screens, open menu items, and finalize selections.	
8	? - HELP	Press to open content-sensitive help.	
0	ESC	Press to return to the previous screen.	

### **List Of Alarms**

•	Cool	ling	Fan	Fail	lure
	CUU	ung	1 an	I al	luic

Cooming I am I amure

• High Subfeed Current

• **High** Total Output Current

• High Output Voltage

• Low Subfeed Current

• Low Total Output Current

• Low Output Voltage

• Maximum Subfeed Current

• Max Total Output Current

• Max Output Voltage

• Minimum Subfeed Current

• Min Total Output Current

• Min Output Voltage

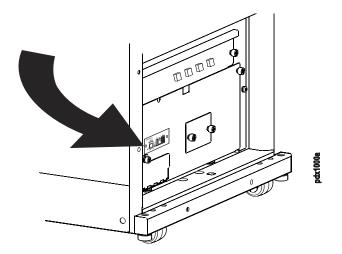
• Output Frequency

• Subfeed Breaker Open

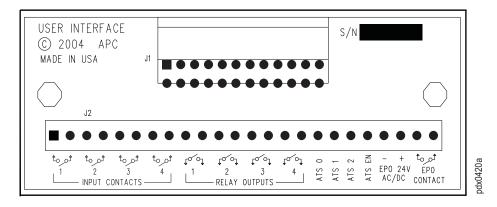
• Transformer Overheating

### **Network Management Card**

The system is equipped with one embedded network management card for remote monitoring and control of an individual PDU by connecting it directly to the network.



### **Input and Output Contacts**



#### Note:

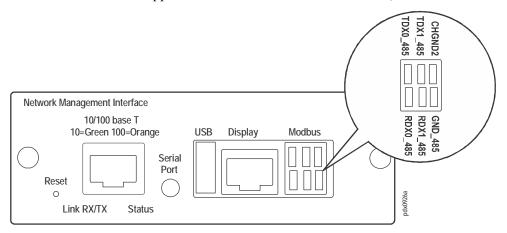
Input Contacts are "Normally Open." Available Output Contacts: SPST N/O, 1A@30VDC Wiring: 12 AWG to 30 AWG is recommended.

### **User Interface Relay Outputs**

Nominal Switching Capacity	1A @ 30VDC		
Surge ratings	Surge withstand voltage up to 2500 VAC,		
Surge ratings	meets FCC Part 68 and Telecordia		

### **Modbus**

The 150kVA InfraStruxure PDU supports 2-Wire or 4-Wire Modbus RS485, as well as Modbus TCP.



# **Compliance**

- UL Listed
- cUL
- OSHPD

# **Facility Planning**

# **Input Specifications**

Input	Copper or Aluminum Wiring
Grid System	3W + G
Input Mains	Single
Mains Input Nominal Voltage	480 V
Input Power (W)	150,000 W
Nominal Mains Input Current (A)	186 A
Max Continuous Current (A)	186 A
Main Upstream Current Protection (A)	250 A
Maximum Short Circuit Withstand Level*	65 kA
* The maximum available fault current was not evo	aluated by Underwriters Laboratories.
Nominal Frequency (Hz)	60 Hz
Mains Input Terminal Hole Size	24.1 mm x 30.2 mm (0.937 in. x 1.189 in.)
Mains Input Terminal Cable Size	Copper or Aluminum; Single Conductor: 600 kcmil to 4 AWG Dual Conductor: 250 kcmil to 4 AWG
<b>Mains Input Terminal Torque</b>	550 in/lb

# **Output Specifications**

Subfeed Output Wiring	Copper or Aluminum wiring
Grid System	Dependent on Distribution Breaker
Distribution Breaker Wiring	Copper or Aluminum
Distribution Panels x Amperage	2 x 225 A
Breaker Positions per Panel	42
Poles	84
Overload Protection	Yes
Max Distribution Breaker Size*	150 A
*Optional Branch Current and Power Monitoring (BC	CPM) can monitor breakers up to 100A.
Current Capacity of Factory Installed Breakers (A)	15A, 20A, 30A, 50A, 60A
Full Load Power Rating	150 kW
Nominal Output Current	416 A
Max Continuous Output Current (100% rated input breaker)	416 A
Overload	Dependent on Breakers
Max Total Current Draw per Phase	225 A
Output Current Protection	Square D QO, QOB, QH, QHB (15 - 150A)
Subfeed Output Current	125 - 400 A
Nominal Output Voltage	208 V

### **Efficiency & Heat Dissipation Specifications**

PDU Load* (%)	25%	35%	50%	75%	100%
Efficiency (%)	98.10%	98.40%	98.30%	98.00%	97.70%
Input Watts (W)	38,226	53,354	76,297	114,796	153,531
Load Watts (W)	37,500	52,500	75,000	112,500	150,000
Watt Losses (W)	726	854	1,297	2,296	3,531
Heat Dissipation (BTU/hr)	2,479	2,914	4,427	7,836	12,052
*All data is at Power Factor (PF) 1.0 load.					

### **Breakers**

### **Main Input Breaker**

Location	Rear
<b>Short-Circuit Capacity</b>	65 kAIC
Туре	Square D

### Max Input Conductor Size - Recommended Conductor Sizes per Phase

This product may cause radio interference, in which case, the user may be required to take additional measures. Recommended Conductor Sizes per Phase/Neutral.

All wiring must comply with all applicable national and/or local electrical codes.

Conductor sizing in this manual is based on Table 310-16 of the National Electrical Code (NEC) with the following assertions.

- 90°C conductors (THHN) for 75°C termination
- 3 current carrying conductors
- An ambient temperature of 30°C
- Use only copper conductors

If the ambient room temperature is greater than 30°C, larger conductors are to be selected in accordance with the correction factors of the NEC.

Equipment Grounding Conductors (EGC) are sized in accordance with NEC Article 250-122 and Table 250-122.

Grounding Electrode Conductors (GEC) are sized in accordance with NEC Article 250-66 and Table 250-66.

### Main Input: 480 VAC

Note: Main Input Breaker is 100% rated.

	OCPD				
Main Input	80%	30C	40C	EGC	GEC
Copper (Cu)	250A	1 x 250 kcmil	1 x 300 kcmil	4AWG	2AWG
Aluminum (Al)	250A	1 x 350 kemil	1 x 400 kcmil	2 AWG	1/0

Subfeed	# Current Carrying Conductors	30C	40C	PE
Copper (Cu)	3	2 x 3/0	2 x 4/0	3 AWG
Copper (Cu)	4	2 x 250 kcmil	2 x 300 kcmil	3 AWG
Aluminum (Al)	3	2 x 250 kcmil	2 x 300 kcmil	1 AWG
Aluminum (Al)	4	2 x 350 kcmil	N/A	1 AWG

### **Panelboard Breakers**

Short-Circuit Capacity	65 kAIC		
Туре	SquareD J-Frame		
Branch circuit breakers are III, listed series combination rated with main			

Branch circuit breakers are UL listed series combination rated with main input circuit breaker to 65 kAIC.

### **Subfeed Breaker**

Supported Subfeeds	1	
Subfeed Breaker Amperage	400 A	

### **Distribution Breaker**

Minimum / Maximum Size Supported	10 - 150 A
Current Capacity of Factory Installed Breaker Options (A)	15A, 20A, 30A, 50A, 60A
Short Circuit Capacity	10 kAIC

### **Environmental Data**

Operating Temp	0° - 40°C (32° - 104°F)
Storage Temp	(-25)° - 65°C ((-13)° - 149°F)
Operating Humidity	5 - 95%, non-condensing
Storage Humidity	5 - 95%, non-condensing
Operating Elevation	0 - 10,000 ft
Storage elevation	0 - 50,000 ft
On anoting Environment	Protected from Water and
Operating Environment	Conductive Contaminants
Storage Environment	Protected from Water and
Storage Environment	Conductive Contaminants
Airflow/cooling requirement	Front to rear airflow
Conditional Short-Circuit	65 kAIC
Current Rating (ICC)	03 KAIC
Audible noise @ 3ft from surface	74 dBA

### **Transformer Specifications**

Size	150kVA
Type	Dry
Configuration	Delta-Wye
Input Voltage	480 V
Input Current	186 A
Inrush Current	< 10 x Nominal Input Current Per Phase
Output voltage	208 V
Output current	416 A
Weight	417.3 kg (920.0 lb)
Impedance	3 - 6%
Frequency	60 Hz
Frequency range	57 Hz - 63 Hz
Noise	< 50 dBA @ 1m at full load
Standards	TP-1, UL 1561
Windings	Copper Only; No Aluminum
Insulation class	180°C (356°F) minimum
Ventilation	Forced Air Convection
Temperature Sensors	Yes
Efficiency	98.3% @ at 35% of Nameplate load

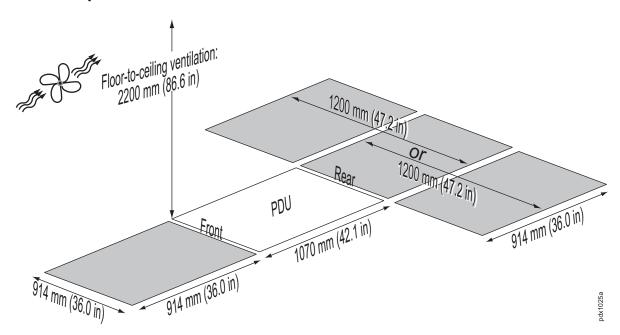
### **Dimensional Data**

### **Physical Dimensions**

Unpackaged dimensions	2057.4 x 609.6 x 1066.8 mm			
$(\mathbf{H} \times \mathbf{W} \times \mathbf{D})$	(81 x 24 x 42 in.)			
Shipping Dimensions	(2209.8 x 1168.	4 x 1219.2 mm)		
$(\mathbf{H} \times \mathbf{W} \times \mathbf{D})$	(87 x 46	x 48 in.)		
Minimum Weight (PDU	816.	5 kg		
unpopulated)	(180	0 lb)		
Estimated Weight	1043.3			
(PDU fully populated)	(2300 lb)			
Minimum Shipping Weight	861.8 kg			
(PDU unpopulated)	(1900 lb)			
<b>Estimated Shipping Weight</b>	1088.6 kg			
(PDU fully populated)	(2400 lb)			
Note: Weight will vary from unit to	Note: Weight will vary from unit to unit due to differences in cable requirements.			
Conton of Cuarity	X-direction from side	300 mm (11.8 in.)		
Center of Gravity (unpopulated PDU)	Y-direction from front	847 mm (33.3 in.)		
	Z-direction from floor	610 mm (24.0 in.)		

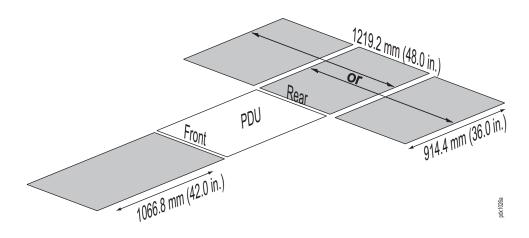
# **Free Space Around PDU**

### **Air Flow Requirements**



Top (Floor to Ceiling Ventilation)	2200mm (86.6 in.)
Front clearance (depth x width)	914 x 914 mm (36 x 36 in.)
Rear Clearance	914 x 1200 mm (36 x 47.2 in.)
Note: Installation must follow all local, state, ar	nd national codes.

### **Installation and Maintenance Accessibility Recommendations**

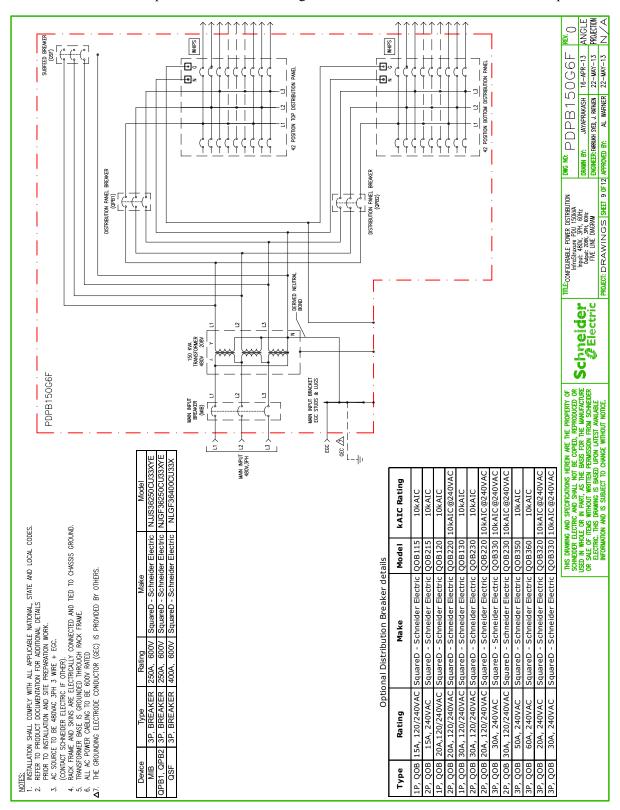


Front Clearance	1066.8 mm	
From Clearance	(42 in.)	
Rear Clearance*	1219.2 mm	
Real Clearance	(48 in.)	
*Laterally, from either side of the back of the unit, as	illustrated in figure above.	
Color	Black	
Input Power Entry Cable Route	Top and Bottom	
Output Power Exit Cable Route	Тор	
Conduit Size	Defined by Input Wiring	
Top and Bottom Plate Hole Size for Conduit (Input)	175 mm x 127 mm	
Top and Bottom Flate Hole Size for Conduit (Input)	(6.9 x 5.0 in.)	
Holo Size in Ton Plate for Conduit (Subfeed)	210 mm x 127 mm	
Hole Size in Top Plate for Conduit (Subfeed)	(8.3 x 5.0 in.)	
Note: Installation must comply with applicable national, state, and local electrical codes.		

# **Drawings**

**Note:** These drawings are for reference ONLY - subject to change without notice.

Note: A comprehensive set of drawings is available on the APC Web site: www.apc.com



# **Options**

# **Hardware Options**

### Breaker & Cord Set Compatibility Chart, 208Y/120V Regions

The Schneider Electric Configurable Power Accessories specified are intended for use in 208V Configurable PDUs. They can be installed in the 150kVA InfraStruxure PDU (PDPB150G6F).

Voltage	Amperage	Make	Model	Poles	Compatible Cord Set
240VAC	15A	Square D	QOB215	2P	3 Wire NEMA L6-15
120/240VAC	15A	Square D	QOB115	1P	3 Wire NEMA L5-15
240VAC	20A	Square D	QOB320	3P	5 Wire NEMA L21-20
120/240VAC	20A	Square D	QOB220	2P	4 Wire NEMA L14-20
120/240VAC	20A	Square D	QOB120	1P	3 Wire NEMA L5-20
120/240VAC	20A	Square D	QOB220	2P	3 Wire NEMA L6-20
240VAC	30A	Square D	QOB330	3P	4 Wire NEMA L15-30
120/240VAC	30A	Square D	QOB230	2P	4 Wire NEMA L14-30
120/240VAC	30A	Square D QOB130 1P 3 Wire NEMA L5-3		3 Wire NEMA L5-30	
240VAC	30A	Square D	QOB330	3P	5 Wire L21-30
120/240VAC	30A	Square D	QOB230	2P	3Wire NEMA L6-30
240VAC	50A	Square D	QOB350	3P	4 Wire Hubbell CS8364C
240VAC	60A	Square D	QOB360	3P	4 Wire IEC 309 60A
Breaker Type: QOB					
Breakers are UL Listed, CSA certified by Square D by Schneider Electric					
Configurable PDU and its Factory-installed Breakers and Cord Sets are UL Listed.					
The short-circuit withstand rating of all breakers is 10 kAIC.					

### Seismic Kit

• For OSHPD pre-approval, you must purchase "Seismic Kit for 600 mm Symmetra PX 100 and Symmetra PX 250/500 Frames (SYOPT600)."

# **Configuration Options**

- 42-pole branch current power monitoring (BCPM)
- 84-pole branch current power monitoring (BCPM)
- Branch Breakers without Cordsets. (See *Hardware Options* → *Breaker & Cord Set Compatibility Chart*, 208Y/120V Regions for list of Breakers.)
- StruxureWare Data Center Expert Compatible
- Seismic Bracket Kits Available
- 300 mm Maintenance Bypass Panel

# Warranty

#### SCHNEIDER ELECTRIC LIMITED FACTORY WARRANTY

### Three Phase Power Products or Cooling Solutions One-Year Factory Warranty<sup>1</sup>

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