

# **Powerware 9170+ CTO Configuration Guide**



## **PW9170+ All Models**

Invensys Powerware Division  
2727 Kurtz Street  
San Diego, CA 92110 U.S.A.  
800.356.5794  
[www.powerware.com](http://www.powerware.com)

9170PCG  
January 15, 2002

  
**POWERWARE**<sup>®</sup>  
UNINTERRUPTIBLE POWER SYSTEMS

# PW9170+ CTO Configuration Guide

## Configuring Your PW9170+ UPS

PW9170+ chassis must be ordered using a Configure To Order (CTO) number that reflects the cabinet style, isolation requirements, input/output configurations, and branding options for standard and OEM applications. As you select the options needed, they will become part of the CTO number.

Sample CTO Number: 0660C060AAAAAAP.

Power modules, battery packs, external battery cabinets, bypass switches and other external options need to be ordered as separate line items.

Base Unit		
Base Model: Digits 1-4	CTO Order Code	Base Price
PW9170+	0660	\$0

Cabinet Style		
Cabinet size and Isolation: Digits 5-7	CTO Order	Base Price
3-slot cabinet w / no isolation	C03	\$1499
6-slot cabinet w / no isolation	C06	\$1699
9-slot cabinet w / no isolation <sup>1</sup>	C09	\$1849
12-slot cabinet w/ no isolation	C12	\$1999
3-slot cabinet w / isolation & not 120/208 input <sup>2</sup>	I03	\$1979
6-slot cabinet w / isolation & not 120/208 input <sup>2</sup>	I06	\$2959
12-slot cabinet w / isolation & not 120/208 input <sup>2</sup>	I12	\$4439
3-slot cabinet w / isolation & 120/208 input <sup>2</sup>	J03	\$1979
6-slot cabinet w / isolation & 120/208 input <sup>2</sup>	J06	\$2959
12-slot cabinet w / isolation & 120/208 input <sup>2</sup>	J12	\$4439

1. Isolation not available in 9-slot chassis

2. Only split phase power modules may be used with isolation

Future Option Use		
Option Definition to be Defined Later: Digit 8	CTO Order	Base Price
None	0	\$0

## PW9170+ CTO Configuration Guide

<b>Line Cords</b>			
<b>Power Module Selection</b>	<b>Line Cord Selection: Digit 9</b>	<b>CTO Order Code</b>	<b>Option Price</b>
Any	None - Hardwired	A	\$0
Universal Module	6-20P <sup>1</sup>	B	\$39
Universal Module	L6-30P <sup>2</sup>	C	\$109
Universal Module	6-50P <sup>3</sup>	D	\$129
Universal Module	L6-20P <sup>1</sup>	E	\$89
Split Phase Module	L14-20P <sup>1</sup>	F	\$109
Split Phase Module	L14-30P <sup>2</sup>	G	\$129
Split Phase Module	14-50P <sup>3</sup>	H	\$149
Universal Module	IEC309 (32A)	I	\$149
Universal Module	IEC309 (63A)	J	\$249

1. Limits chassis to maximum current of 16A and two power modules for 3kVA redundant.
  2. Limits chassis to maximum current of 24A and three power modules for 5kVA redundant.
  3. Limits chassis to maximum current of 40A and four power modules for 8kVA redundant.
-

# PW9170+ CTO Configuration Guide

## Output Connections

Output connection configuration is designated by 6 digits within the unit CTO number. These six digits allow selection of the type and quantity for up to a maximum of three different types of receptacles.

- 3-slot chassis maximum 4 bays
- 6 & 9-slot chassis maximum 8 bays
- 12-slot chassis maximum 12 bays
- If multiple quantities of one type of receptacle are desired, enter the type once with the total quantity (ex: CD not BDBD).
- Always enter the receptacle types alphabetically (ex: BCBF not BFBC).
- If hardwire output is desired, select type "A", quantity "A", for all three receptacle types (ex: AAAAAA).
- If fewer than three types of receptacle are selected, complete the remaining receptacle digits with AA (ex: BDCFAA).

Output Connection: Digits 10-15	Power Module Type	Number of Bays	CTO Order Code		Option Price per Panel
			Qty <sup>1</sup>	Type	
None	All	None	A	A	\$0
UK	Universal	1	___	B	\$69
HV IEC320 10A	Universal	1	___	C	\$59
5-15R duplex	Split Phase	1	___	D	\$49
5-20R duplex	Split Phase	1	___	E	\$49
6-15R duplex	All	1	___	F	\$69
6-20R duplex	All	1	___	G	\$69
Australian	Universal	1	___	H	\$69
LV IEC320 10A	Split Phase	1	___	I	\$59
L5-15R twist lock duplex	Split Phase	1	___	J	\$49
L5-20R twist lock	Split Phase	1	___	K	\$49
L5-30R twist lock	Split Phase	1	___	L	\$59
L6-15R twist lock duplex	Split Phase	1	___	M	\$79
L6-20R twist lock	All	1	___	N	\$69
L6-30R twist lock	All	1	___	O	\$69
Shuko	Universal	1	___	P	\$69
L14-20R twist lock	Split Phase	1	___	Q	\$69
L14-30R twist lock	Split Phase	1	___	R	\$69
French Shuko	Universal	1	___	S	\$69
IEC320 32A	Universal	1	___	T	\$89
3 x 5-15R duplex	Split Phase	2	___	W	\$69
3 x 5-20R duplex	Split Phase	2	___	X	\$69
Complete Output Connection CTO Order Code					__ _ _ _ _

1. A=0 B=1 C=2 D=3 E=4 F=5 G=6 H=7 I=8 J=9 K=10 L=11 M=12

# PW9170+ CTO Configuration Guide

Chassis Branding & Labels		
Label Description: Digit 16	CTO Order Code	Option Price
Powerware	P	\$0

## Non CTO Options

Power modules, battery packs, external battery cabinets, bypass switches and other external options are not a part of the CTO number and need to be ordered as separate line items.

Power Modules			
Type	Description	Order Number	List Price
Split Phase	3kVA / 2.5kW (100/200, 120/208, 127/220, 110/220, 120/240V In & Out)	ASY-0673	\$1689
Universal	3kVA / 2.1kW (208 – 240 V In & Out)	ASY-0674	\$1609

## Batteries & Battery Accessories

Option	Order Number	List Price
Battery Module (two required per string)	ASY-0529	\$189
20 Amp Optional Charger <sup>1</sup>	ASY-0675	\$2399
6-slot external battery enclosure <sup>2</sup>	ASY-0640	\$999
9-slot external battery enclosure <sup>2</sup>	ASY-0641	\$1399
12-slot external battery enclosure <sup>2</sup>	ASY-0642	\$1699
12-slot external battery enclosure <sup>2</sup> (w/AC input for optional charger)	ASY-0653	\$2199
External Battery Connector	ASY-0525	\$149

1. Same form factor as power module and consumes 3kVA power

2. External battery connector, ASY-0525 required for each cabinet

## External Maintenance Bypass Switches

Chassis Description	Switch Type	Order Number	List Price
3-slot	MBB (Make Before Break)	BPE12MBB1A	\$550
	BBM (Break Before Make)	BPE12BBM1A	\$450
6 Slot	MBB (Make Before Break)	BPE14MBB1A	\$650
	BBM (Break Before Make)	BPE14BBM1A	\$550
9 & 12-Slot	MBB (Make Before Break)	BPE22MBB1A	\$1100
	BBM (Break Before Make)	BPE22BBM1A	\$1000

## PW9170+ CTO Configuration Guide

<b>Other External Options</b>		
<b>Option</b>	<b>Order Number</b>	<b>List Price</b>
Rack-mount Kit (3 & 6-slot enclosures only)	ASY-0547	\$79
Caster kit (3 & 6-slot enclosures only)	ASY-0527	\$59
External DC battery connection kit	ASY-0525	\$149
Floor anchoring kit	ASY-0548	\$29

<b>Communications Options</b>		
<b>Option</b>	<b>Order Number</b>	<b>List Price</b>
SNMP/WEB Internal Ethernet SNMP/HTTP Adapter	IPK-0329	\$299
Relay Card	1014018	\$99
AS/400 Standard Cable Kit	05142494	\$49

# PW9170+ CTO Configuration Guide

The Chassis CTO Worksheet									
	UPS CTO Order Code					Extended List Price	Discount	Net Price	
PW9170+ Base	0660								
Isolation									
Number of Slots									
Future Options				0					
Input Connection									
Chassis Label									
Internal Options						P			
Complete UPS CTO Number	0660			0			P		
Chassis Subtotal									

Other Components						
	Part #	Qty.	List Price	Discount	Net Price	
Power Modules						
Battery Modules (2 per string required)	ASY-0529					
20 Amp Charger Module	ASY-0675					
External DC Battery Connection	ASY-0525					

External Battery Cabinet			
Battery Cabinet Selected:			

External Maintenance Bypass Switch			
External Maintenance Bypass Switch Selected:			

Other Options						
Rack-mount Kit (3 & 6-Slot chassis only)	ASY-0547					
Caster Kit (3 & 6-Slot chassis only)	ASY-0527					
Floor Anchoring Kit	ASY-0548					
SNMP/Web Internal Ethernet SNMP/HTTP Adapter	IPK-0329					
Relay Card	1014018					
AS/400 Standard Cable Kit	05142494					

Sub Total			
	Freight		
	Insurance		
	Tax/Duty		
	Quote Total		

Special Instructions:
-----------------------