Ordering Information

Part Number

①	② Package Style	③ Phase	④ Heater Diagnostics		⑤ ⑥ ⑦ Output Amperage Rating	⑧ Output Voltage Rating		⑨ Comm.	⑩ Feedback/ Retransmit	⑪ ⑫ Custom
P	C			-			-			

② Package Style	
C =	65 to 250A

③ Phase	
1 =	1-phase
2 =	3-phase/2-leg control, (4 SCRs)
3 =	3-phase/3-leg control, (6 SCRs)
4 =	3-phase/4-wire, wye connected load
8 =	2 single-phase zones (specify 01 or 03 for custom)
9 =	3 single-phase zones (specify 01 or 03 for custom)

④ Heater Diagnostics (Includes Current Limit)	
0 =	None
1 =	Heater diagnostics (Current limiting and heater bakeout are only available on single-phase and 3-phase, 3-leg controllers)

⑤ ⑥ ⑦ Output Amperage Rating
See amperage chart below.

⑧ Output Voltage Rating	
A =	24 to 120V
B =	200 to 480V
C =	200 to 600V

⑨ Communications	
0 =	None
1 =	EIA/TIA-232/485 communications, opto-isolated, (field selectable)

⑩ Feedback/Retransmit	
0 =	None
1 =	Load current feedback (0-10V or 0-20mA scalable retransmit output) (Must have heater diagnostics selected)

⑪ ⑫ Custom	
00 =	None
AA =	No Watlow logo with agency approval marks
AB-ZZ	Custom, contact your Watlow representative for options
01 =	Select for PC8 or PC9 using single-phase power supply, Watlow logo
03 =	Select for PC8 or PC9 using multi-phase power supply, Watlow logo

Single-Phase Configuration
This configuration can be purchased with any or all the features available on the POWER SERIES, based on customer preference. It is intended for resistive heaters, but can also be used on transformer connected loads in the phase angle firing mode.

Three-Phase, Two Leg Configuration
This configuration is intended for zero cross firing only into a stable resistive heater. Typically, a three-phase delta or ungrounded wye connected heater is used and only two of the three VAC line phases are switched. The third phase is a direct connection through a bussbar on board the POWER SERIES. Heater current monitoring and kVA options are available via the heater diagnostics option.

Three-Phase, Three-Leg Configuration
All POWER SERIES options are available with this configuration. It works well with phase angle firing into a three-phase, three-wire wye or delta connected heater. In this configuration, the more common applications are transformer connected loads with heaters requiring a soft start and/or current limiting.

The three-phase, four-wire configuration is intended for zero cross firing into a three-phase grounded wye/star heater (This is a separate hardware option, model number dependent.)

Single-Phase, Multizone Configuration
This configuration is available in two and three single-phase zones and all the features of a single-phase unit are available. (Note that there is only one alarm relay and all zones in the controller must use the same control method.)

Heater Diagnostics
Heater diagnostics may include some or all of the features that require heater current monitoring, depending on the model selected. Heater current monitoring is only available with heater diagnostics installed on the controller. The features dependent on heater current monitoring are heater bakeout, current limiting, heater kVA monitoring, retransmit and heater monitoring alarms such as open heater, heater out of tolerance, load balance and shorted SCR detection/error. Heater diagnostics must also be installed if you need phase angle control with current limit.

Amperage Chart—122°F (50°C)

	Single-Phase		3-Phase, 2-Leg and 2 Single-Phase Zones		3-Phase, 3-Leg, 3 Single-Phase Zones and 4-Wire Model	
	Code	Amp	Code	Amp	Code	Amp
Non Fan Cooled	N20	100A	N20	80A	N20	65A
	N25	140A	N25	105A	N25	85A
	N30	165A	N30	120A	N30	105A
Fan Cooled	F20	125A	F20	120A	F20	90A
	F25	200A	F25	160A	F25	140A
	F30	250A	F30	185A	F30	155A
	N/A	N/A	F35	250A	F35	225A