

# CPS6000 QS Series Rectifiers

## 42 to 58 Vdc Output

### Features

- 2U height
- Vertical forced-air cooled with variable speed fans
- Constant power

### Applications

- Wireless networks
- XDSL
- DLC Equipment
- Switching Market
- Outside Plants



### QS Series Rectifiers

QS861A	15A
QS852A	20A
QS862A	25A/30A
QS853A	25A
QS864A	40A
QS865A	50A

The QS Rectifier Family is designed to operate in harsh temperature environments converting ac power to dc power. These rugged rectifiers are capable of full load operation across the temperature range without derating. Integrated into the CPS6000

Power System, the QS Rectifiers provide a battery reserve system with battery management features such as slope thermal compensation, low-voltage disconnect, battery high temperature alarm and shorted-cell detection.

### Ordering Information

Item			Comcode
QS861A 15A Rectifier	(85 to 275 Vac)	RoHS	CC109129722
QS862A 25A/30A Rectifier	(85 to 275 Vac)	RoHS	CC109129730
QS864A 40A Rectifier	(150 to 275 Vac)	RoHS	CC109129747
QS865A 50A Rectifier	(150 to 275 Vac)	RoHS	CC109129755
QS852A 20A Rectifier	(150 to 275 Vac)	RoHS	CC109129763
QS853A 25A Rectifier	(150 to 275 Vac)	RoHS	CC109129771
QS850 Rectifier Slot Filler		RoHS	CC109130770

## Specifications

<b>Input</b> (at nominal output)	QS861A - 15A Output	7.8A at 120 Vac 4.4A at 208 Vac	
	QS862A - 25A/30A Output	13.0A at 120 Vac 8.8A at 208 Vac	
	QS864A - 40A Output	11.8A at 208 Vac	
	QS865A - 50A Output	14.5A at 208 Vac	
	QS852A - 20A Output	6A at 208 Vac	
	QS853A - 25A Output	7.4A at 208 Vac	
	Operating Frequency Range	45 to 66Hz	
<b>Output</b>	Nominal Output Voltage	48, 52 and 54.5 Vdc	
	Operating Output Voltage Range	42 to 58 Vdc	
	Boost Voltage	48 to 58 Vdc	
	Nominal Output Current	QS861A - 15A QS862A - 25A/30A QS864A - 40A	QS865A - 50A QS852A - 20A QS853A - 25A
	Power Rating	QS861A - 818W QS862A - 1363W/1635W QS864A - 2180W	QS865A - 2725W QS852A - 1090W QS853A - 1363W
	Efficiency	92.5% typical (high-line: QS865A) 91.5% typical (high-line: QS853A) 91% typical (high-line: QS862A) 90% typical (high-line: QS852A, QS861A) 89% typical (low-line: QS861A, QS862A) 88% typical (high-line: QS861A,)	
	Output Voltage Regulation	± 0.5%	
	Output Noise Ripple	250mV	
	Load Share Accuracy	5%	
	Heat Dissipation (Full Load)	QS861A 132W (450 BTU) at 120 Vac 130W (445 BTU) at 240 Vac QS862A 177W (604 BTU) at 120 Vac 212W (724 BTU) at 240 Vac QS864A 240W (819 BTU) at 240 Vac QS865A 267W (911 BTU) at 240 Vac QS852A 133W (454 BTU) at 240 Vac	



**Specifications (continued)**

	Power Factor	>0.95 for >50% loads
	Total Harmonic Distortion	QS862A, QS864A, QS865A <5% for loads >85% full load QS861A, QS852A, QS853A <10% for loads >85% full load
	Selective High Voltage Shutdown	Above 58Vdc
	Backup High Voltage Shutdown	Above 60 Vdc for 1 millisecond
<b>Physical</b>	Operating Temperature	-40°C to +75°C (QS861A, QS862A, QS863A, QS864A, QS852A, QS853A) -40°C to +65°C (QS865A)
	Length	11.2 in. (284.5 mm)
	Width	3.4 in. (86.3 mm)
	Height	3.4 in. (86.6 mm)
	Weight	5.75 lb (2.6 kg) without packaging 6.40 lb (2.90 kg) with packaging