

DS\_RCB1200\_Rev04\_OCTOBER 2015



The RCB1200 is a modular, configurable power supplies that provide high performance and outstanding flexibility.

Delivering 1200 W from a 1300 g, 6.09" x 6.05" x 1U package, the RCB1200 offer the highest power density for a configurable power solution.

The RCB1200 power supply consists of two input modules twins that provide power to eight isolated slots where can be plugged in up to five different type of modules in any combination and series/parallel connections. Output modules are available in four single nominal output voltages: 5, 12, 24 and 48 V and one double nominal 12V outputs, each of them offering an extremely wide voltage adjustability range.

Two built in fans and their speed control circuit assure proper forced air cooling minimizing operation noise and enhancing the power supply service life time.

The RCB1200 certified to IEC/EN/UL/CSA 60950-1 2<sup>nd</sup> Edition for IT and Industrial equipment. The series meets the EN55022 EMC limits of Class B for conducted and radiated emissions as well as the EN 61000-3 and EN 61000-4 EMC standards.





#### **KEY FEATURES**

- Universal input voltage (active\_PFC)
- High power density (>20 W/in<sup>3</sup>)
- 1200 W output in a 6.09"x6.05"x1.61" form factor
- Fan speed control function / quite operation
- Modular, configurable power supply
- Output modules parallel / series operation(\*)
- Accurate wired current share
- Remote voltage/current programming /control
- Output current monitoring signal
- 2x +5 V, 200 mA bias supplies
- IEC/EN/UL/CSA 60950-1, 2<sup>nd</sup> Edition
- RoHS directive 2011/65/UE compliant

(\*) Reference the User Manual or contact the factory for parallel operation between modules plugged into slots 1/2/3/4 and slots 5/6/7/8.



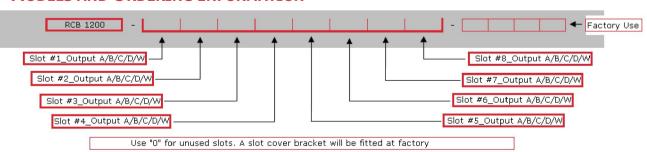
#### **MARKET SEGMENTS AND APPLICATIONS**

- Information Technology Equipment
- Test and Measurement Equipment
- Automation and Drives

- Broadcast and Entertainment
- Printing devices
- Industrial and Process Control

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#### **MODELS AND ORDERING INFORMATION**



The factory might issue a 4 digit code for a specific configuration which can be used for next and future orders of the same configuration.

When ordering an input unit with no outputs inserted, simply order RCB 1200.

Output Module	Nominal Voltage	Voltage Adjustment	Output Rated Power	Rated Current	Max Current at Nom Voltage	Load Regulation	Over Voltage trip level
Α	5 V	1.5 to 7.5 V	125 W	25.0 A	25 A	±50 mV	9.5 V
В	12 V	4.5 to 15 V	150 W	15.0 A	12.5 A	±100 mV	18 V
C	24 V	9 to 30 V	150 W	7.5 A	6.25 A	±150 mV	36 V
D	48 V	18 to 58 V	150 W	3.75 A	3.13 A	±300 mV	66 V
W	2x12 V	3.3 to 15 V	2X 75 W	5.0 A	5.0 A	±50 mV	20 V
0 (zero)		Met	al blanking plate for	r unused slots			





#### **INPUT SPECIFICATIONS**

Parameter	Details	Min	Тур	Max	Units
AC input voltage	Nominal range is 100 to 240 V <sub>RMS</sub>	85		264	V <sub>RMS</sub>
AC input frequency		47	50/60	63	Hz
DC input voltage		120		300	$V_{DC}$
Power rating	Derate by $0.83\%/V_{RMS}$ below $120~V_{RMS}$ (1200 W at 120 $V_{RMS}$ , 900 W at 90 $V_{RMS}$ )			1200	W
Input current	At 1200 W output and 120 V <sub>RMS</sub> input			12	Α
Inrush current	265 V <sub>RMS</sub> , cold start			40	Α
Fusing	5x20 fast acting fuse on line conductor of each input section			8	Α
Input current limit	Maintains power factor		16		Α
Efficiency	Configuration dependent		86	89	%
Idla namar	All outputs fitted and enabled		56		W
Idle power	All outputs fitted and disabled		42		VV
Power factor	Typical value at 1200 W output at 240 V <sub>RMS</sub>		0.96		
Hold up	1200 W output at 120 V <sub>RMS</sub> input	17	20	21	ms
UVLO	Turn on only	78		84	$V_{RMS}$
Over temperature	Internally monitored. Latching	115		125	°C
Reliability	At 40 °C, 80% load			4	FPMH

### SIGNALS

Parameter	Details	Min	Тур	Max	Units		
Available on both back panel signal connectors J2 (see drawing below)							
Bias voltage		4.8	5	5.2	V		
Bias current		0		200	mA		
Power Good Voltage	PNP open collector with internal 10 $k\Omega$ pull down resistor	8	10	15	V		
Power Good Current		0		20	mA		
Individual inhibit voltage	Apply $\geq$ 5 V when used as Global Inhibit.	2		15	V		
Inhibit current	10 kΩ input impedance	0.2		1.5	mA		
Global inhibit voltage		3		15	V		
Global inhibit current	5 k $Ω$ input impedance	0.6		3	mA		
AC_OK voltage		1		4	V		
AC_OK current		-10		20	mA		
AC_OK warning	See user manual for exceptions	5			ms		

## ENVIRONMENTAL, INSTALLATION AND RELIABILITY

Parameter	Details	Min	Max	Units
Storage				
Temperature		-40	+85	°C
Humidity	Relative, non-condensing	5	95	%
Altitude		-200	5000	m
Air Pressure		54	106	kPa
Operating				
Temperature	Full power	-20	50	٥C
	De-rating input and output at 2.5% / °C	50	70	Ü
Humidity	Relative, non-condensing	5	95	%
Altitude		-200	4600	m
Air Pressure		69	106	kPa
Acoustic Noise	Variable to input voltage, ambient temperature, load. Measured at $1$ m from fan intake	35	60	dB(A)
Shock	3000 bumps at 10 g (16 ms) half sine wave			
Vibration	1.5 g, 10 to 200 Hz sine wave, 20 g for 15 min in three axes random vibration			
Installation				
Equipment Class	I			
Installation Category	Category II			
Pollution Degree	2			
Material Group	IIIb (indoor use only)			
Flammability Rating	94V-2			
IP Rating	IP10			
RoHS Compliance	Directive 2011/65/UE			
Reliability				
Fan	2X Mag Lev Std		5.4	FPMH
Power unit	Input + Transformer modules excluding fan		4	FPMH
Output Modules	See individual output data-sheets		1	FPMH
Warranty			2	Years





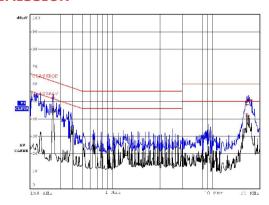
## © ELECTROMAGNETIC COMPATIBILITY (EMC)

Parameter	Standard	Level
Emissions		
Radiated electric field	EN55011, EN55022, FCC	В
Conducted emissions	EN55011, EN55022, FCC	В
Harmonic distortion	EN61000-3-2	Compliant
Flicker and fluctuation	EN61000-3-3	Compliant
Immunity		
Electrostatic discharge	EN61000-4-2 (15 kV air, 8 kV contact)	4
Radiated RFI	EN61000-4-3 (10 V/m)	3
Fast transient, burst	EN61000-4-4 (4 kV)	4
Input line surges	EN61000-4-5 (1 kV L-N, 2 kV L-E)	3
Conducted RFI	EN61000-4-6 (10 V)	4
Power freq. Magnetic field	EN61000-4-8 (10 A/m)	3
Voltage dips	EN61000-4-11 (EN55024)	Compliant

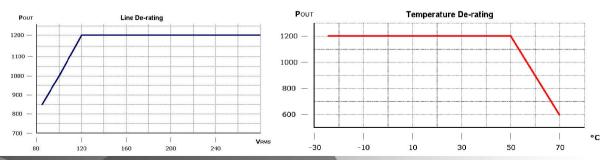
### SAFETY PARAMETERS AND AGENCY APPROVALS

Parameter	Details	Min	Max	Units
Isolation Voltage	Primary to Secondary	4000		$V_{RMS}$
	Primary to Protection Earth (chassis)	1500		$V_{RMS}$
	Output to Chassis isolation is guaranteed up to 250 $V_{DC}$			
	Output to Outputs isolation is guaranteed up to 250 $V_{DC}$			
Isolation Clearance	Primary to Secondary	7		mm
	Primary to Chassis	2.5		mm
Isolation Creepage	Primary to Secondary	12		mm
	Primary to Chassis	4		mm
Earth Leakage Current	265 V <sub>AC</sub> , 63 Hz, 25 °C ambient		600	μΑ
Safety Standards	IEC / EN 60950-1; UL 60950-1; CAN/CSA-C22.2 No. 950.1, 2 <sup>nd</sup> Ed.			
	CE: Directive 2006/95/EC (low voltage requirement); Directive 2004/108//l Directive 2011/65/EU (RoHS)	EC (EMC);		
	Designed to meet IEC/EN/UL/CSA 61010-1 2 <sup>nd</sup> edition			
Agency Approvals and File Numbers	UL: E134098-A35-UL			
	CB Certificate: DK-21001			
	Demko Certificate: 152969-02			

## TYPICAL CONDUCTED EMISSION



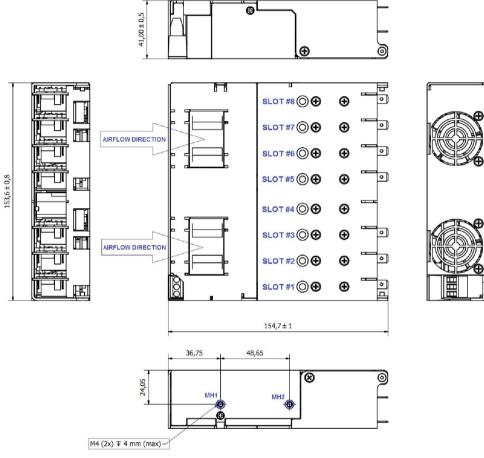
# TEMPERATURE AND INPUT VOLTAGE DE-RATINGS



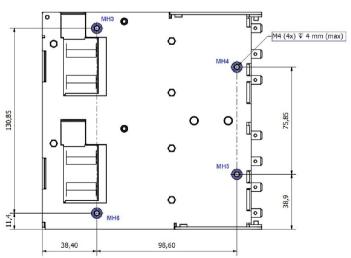


## MECHANICAL SPECIFICATIONS - OUTLINE DRAWING AND DIMENSIONS

Specification	Details	Nominal	Units
Dimensions	1U: 1.75 in, 44.4 mm	153.6 x 154.7 x 41.0	mm
		6.05 x 6.09 x 1.61	in
Weight	Chassis + input	820	g
	Output modules	60	g
	Chassis + input	1.81	lb
	Output modules	0.13	lb
Mounting	Bottom or side mounting through M4 screws	M4	



MOUNTING SCREWS							
MH1, MH2, MH3, M	1H4, MH5, MH6						
Screw type	M4						
Tightening torque	Tighten to 1.5 Nm						
Penetration depth	4.00 mm max, including chassis						



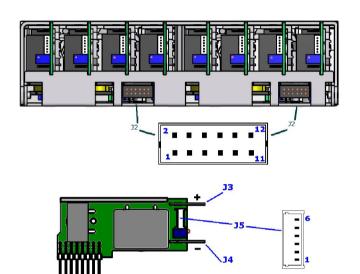




## MECHANICAL SPECIFICATIONS - CONNECTORS AND PIN ASSIGNMENT

Circuit	Details
	J1
1	Neutral
2	Earth
3	Live
	J2
1	Power Good Slot #1
2	Inhibit Slot #1
3	Power Good Slot #2
4	Inhibit Slot #2
5	Power Good Slot #3
6	Inhibit Slot #3
7	Power Good Slot #4
8	Inhibit Slot #4
9	Global Inhibit
10	AC OK
11	+5V 200mA, Bias Supply
12	COM
	J5
1	-Sense
2	+Sense
3	Voltage Control
	Current Control
4	Current Sharing
	Current Monitor
5	COM
6	+5V 10mA, Bias Supply
	J3
Positive Ou	itput





Negative	Output

	COUNTERPART CONNECTORS			
Reference	Details	Manufacturer	<b>Housing PN</b>	Terminal PN
AC Mains Input <b>J1</b>	AC input connection through flying wire/cord, 14-18 AWG, tin finish, 105 °C, 16 A, 300 V rated.	Euroclamp	MVE253-5-V	
Power Unit Signal <b>J2</b>	<ul> <li>2.00 mm (0.079 in) 12 circuits housing with locking ramp, or, any direct equivalent.</li> <li>Crimp terminal 24-30 AWG, gold finish, or, any direct equivalent.</li> </ul>	Molex	0511101260	0503948051
Output Power <b>J3/J4</b>	<ul> <li>Quick Disconnect Receptacle compatible with PCB mounting TAB, size 0.80X6.35 mm. Tin finish.</li> </ul>	Vogt AG Tyco Electronics	NA	3967 640907-1
Output Signal <b>J5</b>	<ul> <li>1.25 mm (0.049 in), 6 circuits housing,</li> <li>Crimp terminal 28-32 AWG, tin finish, or , any direct equivalent</li> </ul>	Molex	0510210600	0500588000
Notes:				

#### 1. Output power terminal and wire current rating must exceed maximum short circuit output current (OP-A: 25\*1.25 = 31.25 A)

2. Direct equivalents may be used for any connectors parts

3. All cables must be rated 105°C min, equivalent to UL1015.

Dual Output Module – OPW – Pin Assignment and Outline drawing

	Duai Outpt	it Module - OF W - Fill Assignment and Oddine drawing	
Circuit	Description		
V1 and V2 Out MOLEX 0430450		*5	
1	-V1		
2	-V2		
3	+V1		
4	+V2		
Signals MOLEX 0530480	0510		
1	S- (V2)		
2	S <sup>+</sup> (V2)		
3	Not connected		
4	S- (V1)		
5	S <sup>+</sup> (V1)		

OP-W Counterpart Connectors						
Reference	Details	Manufacturer	Housing PN	Crimp Terminal PN		
V1 /V2 Outputs	<ul> <li>Micro-Fit 3.0™ Receptacle Housing, Dual Row Halogen Free.</li> <li>Micro-Fit 3.0™ Crimp Terminal, Female, with Phosphor Bronze Contact, 20-24 AWG</li> </ul>	Moley	0430250400	43030-0001		
Signals	<ul> <li>1.25mm Pitch PicoBlade™ Wire-to-Wire and N Housing, Female, 5 Circuits.</li> <li>1.25mm Pitch PicoBlade™ Crimp Term., Female</li> </ul>	Molex	51021-0500	50058-8000		





# OUTPUT SPECIFICATIONS - MODULE A (OP-A)

Parameter	Test conditions / Notes	Min	Nominal	Max	Units
Output voltage range	,	1.5	5	7.5	V
Rated current				25	Α
Average output power				125	W
Peak output power	<5 s, 50% duty cycle			187.5	W
Initial voltage accuracy	Factory set units, Measured at sense terminals	-0.5		0.5	$\% V_{SET}$
Output voltage adjustment	Manual: 11-turns potentiometer		0.545		V/turn
Load regulation	Measured at sense terminals	-50		50	mV
Line regulation	Measured at sense terminals	-0.1		0.1	$%V_{NOM}$
Cross regulation	Measured at sense terminals	-0.2		0.2	$%V_{NOM}$
Minimum load			0		Α
Output temperature drift		-0.02		0.02	%/°C
Ripple and Noise	20 MHz bandwidth, peak-peak			1	$%V_{NOM}$
Transiant records	25% to 75% load transient, at 1A/µs,			1	V
Transient response	recovery to within 10% of V <sub>SET</sub>			100	μs
Turn on rise time	Monotonic, 10% to 90%	1.5		3.5	ms
Turn on overshoot				0.1	%V <sub>SET</sub>
Turn on delay	From AC on to Power Good From Enable to Power Good		600 15	750 20	ms ms
Current sharing accuracy	FIGHT Eliable to Power Good		13	5	%I <sub>MAX</sub>
Open sense offset	Open sense, voltage offset due to bias currents			2	%V <sub>NOM</sub>
Hold-up voltage	currents			6	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%I <sub>RATED</sub>
Reverse current protection	% of rated current	-6		0	%I <sub>RATED</sub>
•	Period	J	125	· ·	ms
Short circuit protection (Hiccup mode)	Duty cycle Voltage threshold (at sense)		3		% V
Over voltage protection	Latching		9.5		V
Over temperature protection	Internally monitored, latching	115		125	°C
Sense cable protection	On positive terminal On negative terminal	-1 none		2	V
Power good threshold	Low threshold only		90		$%V_{SET}$
Output current signal	$I_{SGN} = 0.6 + I_{OUT}/(I_{RTD}*1.25)$	0		110	%I <sub>RATED</sub>
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%I <sub>RATED</sub>
Remote voltage control	$V_{OUT} = V_{SET} ((1.8 - V_{CTRL}) / 0.6)$	0		300	%V <sub>SET</sub>
Bias supply	10 mA max	4.5	5	5.2	V
Reliability	At 40 °C, 80% load	7.5	3	1	FPMH
Warranty				2	Years
Wire size	Power cables	12	10	_	AWG
Weight				60	g
Size	60 mm x 35 mm x 17 mm, or, 2.36 in x	1.38 in x 0	).67 in		3





# **OUTPUT SPECIFICATIONS – MODULE B (OP-B)**

Parameter	Test conditions / Notes	Min	Nominal	Max	Units
Output voltage range		4.5	12	15	V
Rated current				15	Α
Average output power				150	W
Peak output power	<5 s, 50% duty cycle			225	W
Initial voltage accuracy	Factory set units, Measured at sense terminals	-0.5		0.5	$\% V_{SET}$
Output voltage adjustment	Manual: 11-turns potentiometer		0.954		V/turn
Load regulation	Measured at sense terminals	-100		100	mV
Line regulation	Measured at sense terminals	-0.1		0.1	$%V_{NOM}$
Cross regulation	Measured at sense terminals	-0.2		0.2	$%V_{NOM}$
Minimum load			0		Α
Output temperature drift		-0.02		0.02	%/°C
Ripple and Noise	20 MHz bandwidth, peak-peak			1	$%V_{NOM}$
Transient response	25% to 75% load transient, at 0.5A/µs; recovery to within 10% of			1.5	V
	V <sub>SET</sub>			100	μs
Turn on rise time	Monotonic, 10% to 90%	1.5		3.5	ms
Turn on overshoot				0.1	$%V_{SET}$
Turn on delay	From AC on to Power Good		600	750	ms
•	From Enable to Power Good		15	20	ms
Current sharing accuracy	On an array well- are affect due to			5	$\%I_{MAX}$
Open sense offset	Open sense, voltage offset due to bias currents			2	%V <sub>NOM</sub>
Hold-up voltage				12.5	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	$%I_{RATED}$
Reverse current protection	% of rated current	-6		0	$%I_{RATED}$
Short circuit protection (Hiccup mode)	Period Duty cycle Voltage threshold (at sense)		125 3 2		ms % V
Over voltage protection	Latching		18		V
Over temperature protection	Internally monitored, latching	115	10	125	°C
Sense cable protection	On positive terminal On negative terminal	-1 none		2	V
Power good threshold	Low threshold only		90		$%V_{NOM}$
Output current signal	$I_{SGN} = 0.6 + I_{OUT}/(I_{RTD}*1.25)$	0		110	%I <sub>RATED</sub>
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%I <sub>RATED</sub>
Remote voltage control	$V_{OUT} = V_{SET} ((1.8 - V_{CTRL}) / 0.6)$	0		300	%V <sub>SET</sub>
Bias supply	10 mA maximum	4.5	5	5.2	V
Reliability	At 40 °C, 80% load	1.5	3	1	FPMH
Warranty	7.10 °C, 00 70 1000			2	Years
Wire size	Power cables	16	14	10	AWG
Weight				60	g
Size	60 mm x 35 mm x 17 mm, or, 2.36 in	x 1.38 in x	0.67 in		3





# **OUTPUT SPECIFICATIONS – MODULE C (OP-C)**

Parameter	Test conditions / Notes	Min	Nominal	Max	Units
Output voltage range		9	24	30	V
Rated current				7.5	Α
Average output power				150	W
Peak output power	<5 s, 50% duty cycle			225	W
Initial voltage accuracy	Factory set units, Measured at sense terminals	-0.5		0.5	$\% V_{SET}$
Output voltage adjustment	Manual: 11-turns potentiometer		1.9		V/turn
Load regulation	Measured at sense terminals	-150		150	mV
Line regulation	Measured at sense terminals	-0.1		0.1	$%V_{NOM}$
Cross regulation	Measured at sense terminals	-0.2		0.2	$%V_{NOM}$
Minimum load			0		Α
Output temperature drift		-0.02		0.02	%/°C
Ripple and Noise	20 MHz bandwidth, peak-peak			1	$%V_{NOM}$
Transient response	25% to 75% load transient, at 0.25A/μs; recovery to within 10%			3	V
	of V <sub>SET</sub>			100	μs
Turn on rise time	Monotonic, 10% to 90%	1.5		3.5	ms
Turn on overshoot				0.1	$%V_{SET}$
Turn on delay	From AC on to Power Good From Enable to Power Good		600 15	750 20	ms ms
Current sharing accuracy				5	$\%I_{MAX}$
Open sense offset	Open sense, voltage offset due to bias currents			2	$%V_{NOM}$
Hold-up voltage				25	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	$%I_{RATED}$
Reverse current protection	% of rated current	-6		0	$%I_{RATED}$
Short circuit protection (Hiccup mode)	Period Duty cycle Voltage threshold (at sense)		125 3 3.5		ms % V
Over voltage protection	Latching		36		V
Over temperature protection	Internally monitored, latching	115	50	125	°C
Sense cable protection	On positive terminal On negative terminal	-1 none		2	V
Power good threshold	Low threshold only		90		%V <sub>SET</sub>
Output current signal	$I_{SGN} = 0.6 + I_{OUT}/(I_{RTD}*1.25)$	0		110	%I <sub>RATED</sub>
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%I <sub>RATED</sub>
Remote voltage control	$V_{OUT} = V_{SET} ((1.8 - V_{CTRL}) / 0.6)$	0		300	%V <sub>SET</sub>
Bias supply	10 mA max	4.5	5	5.2	V
Reliability	At 40 °C, 80% load	7.5	3	1	FPMH
Warranty				2	Years
Wire size	Power cables	20	18	10	AWG
Weight				60	g
Size	60 mm x 35 mm x 17 mm, or, 2.36 i	n x 1.38 in x	0.67 in		





# OUTPUT SPECIFICATIONS - MODULE D (OP-D)

Parameter	Test conditions / Notes	Min	Nominal	Max	Units
Output voltage range	1 221 22114112112 , 112122	18	48	58	
Rated current				3.75	Α
Average output power				150	W
Peak output power	Less than 5 s, 50% duty cycle			225	W
Initial voltage accuracy	Factory set units, Measured at sense terminals	-0.5		0.5	% V <sub>SET</sub>
Output voltage adjustment	Manual: 11-turns potentiometer		3.6		V/turn
Load regulation	Measured at sense terminals	-300		300	mV
Line regulation	Measured at sense terminals	-0.1		0.1	$%V_{NOM}$
Cross regulation	Measured at sense terminals	-0.2		0.2	$%V_{NOM}$
Minimum load			0		Α
Output temperature drift		-0.02		0.02	%/°C
Ripple and Noise	20 MHz bandwidth, peak-peak			1	$%V_{NOM}$
Transient response	25% to 75% load transient, at 0.25A/µs; recovery to within 10%			3	V
	of V <sub>SET</sub>			100	μs
Turn on rise time	Monotonic, 10% to 90%	1.5		3.5	ms
Turn on overshoot			600	0.1	$%V_{SET}$
Turn on delay	From AC on to Power Good From Enable to Power Good		600 15	750 20	ms
Current sharing accuracy	From Enable to Power Good		15	20 5	ms o/ T
current snaring accuracy	Open sense, voltage offset due to				$%I_{MAX}$
Open sense offset	bias currents			2	%V <sub>NOM</sub>
Hold-up voltage				50	V
Isolation to ground	Each terminal	105		250	V
Over current protection	% of rated current	105		125	$%I_{RATED}$
Reverse current protection	% of rated current	-6		0	$%I_{RATED}$
Short circuit protection (Hiccup mode)	Period Duty cycle Voltage threshold (at sense)		125 3 3.5		ms % V
Over voltage protection	Latching		66		V
Over temperature protection	Internally monitored, latching	115		125	°C
Sense cable protection	On positive terminal On negative terminal	-3 none		3 2	V
Power good threshold	Low threshold only		90		%V <sub>SET</sub>
Output current signal	$I_{SGN} = 0.6 + I_{OUT}/(I_{RTD}*1.25)$	0		110	%I <sub>RATED</sub>
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD}*1.25$	0		110	%I <sub>RATED</sub>
Remote voltage control	$V_{OUT} = V_{SET} ((1.8 - V_{CTRL}) / 0.6)$	0		300	%V <sub>SET</sub>
Bias supply	10 mA max	4.5	5	5.2	V
Reliability	At 40 °C, 80% load		<u>-</u>	1	FPMH
Warranty	·			2	Years
Wire size	Power cables	20	18	10	AWG
Weight				60	g
Size	60 mm x 35 mm x 17 mm, or, 2.36 i	in x 1.38 in x	0.67 in		





#### **OUTPUT SPECIFICATIONS - MODULE W (OP-W)**

Parameter	Test conditions / Notes	Min	Nominal	Max	Units
Voltage range	Each channel	3.3	12	15	V
Rated current	Each channel			5.0	Α
Rated power	Each channel			75	W
Initial voltage accuracy	Factory set units	-1		1	% V <sub>SET</sub>
Voltage adjustment	Manual: 11-turns potentiometer		1.1		V/turn
Load regulation	Measured at sense terminals	-50		50	mV
Line regulation	Measured at sense terminals	-0.1		0.1	$%V_{NOM}$
Cross regulation	Measured at sense terminals	-0.2		0.2	$%V_{NOM}$
Minimum load			0		Α
Temperature drift		-0.02		0.02	%/°C
Ripple and Noise	20 MHz bandwidth, peak-to-peak			2	$%V_{NOM}$
	V <sub>SET</sub> : 12 V				
Transient response	25% to 75% load transient, at 1A/μs,			1	V
	recovery to within 10% of V <sub>SET</sub>			200	μs
Turn on rise time	Monotonic, 10 to 90 %	4.5	5.5	6.5	ms
Turn on overshoot				0.1	$%V_{SET}$
Turn on delay	From AC on (120 $V_{AC}$ ) to Power Good	250	-	350	ms
•	From Enable to Power Good	15	-	25	
Hold-up voltage				12	V
V1/V2 Isolation to ground	Each terminal			250	V
Isolation V1 to V2	Each terminal			250	V
Over current protection	Hiccup mode	105		125	$\%\mathrm{I}_{RATED}$
Reverse current protection	None				$\%I_{RATED}$
Short circuit protection	Hiccup period		50		ms
·	Hiccup duty cycle		25		%
Over voltage protection	Latching	19	20	21	V
Over temperature protection	Internally monitored, latching	115		125	°C
Power good threshold	High threshold	90	94	98	$%V_{SFT}$
i oner good am conord	Low threshold only	88	92	95	70 V 3L1
Reliability	At 40 °C, 80% duty cycle, 100% load			1	FPMH
•	Telcordia SR-332 Issue 2			_	
Warranty				2	Years
Wire size	Power cables	20	18	10	AWG
Size and weight	(27.5 x 65.9 x 15.7) mm; (1.08 x 2.59	x 0.62) in; (	50 g 2.1 oz		

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ngenergy.com

Europe, Middle East and Africa

North America

ROAL Electronics S.p.A Via Jesina 56/A 60022 - Castelfidardo (AN) - Italy Tel:+39 071 721461 Fax:+ 39 071 72146 480 ROAL Electronics USA, Inc. 701, Main St. Suite 405 Stroudsburg, PA18360 Phone: + 1 570 421 5750

Fax: +1 570 421 5687 DS\_RCB1200\_Rev04\_OCTOBER 2015