



NEVO+1200S SERIES

- Modular
- User Configurable
- 1200 Watts of Power



The NEVO+1200S series are modular and user configurable power supplies offering unrivalled performance and flexibility. Delivering up to 1200 watts from a 1.2kg 6" x 6" x 1U package, the NEVO is the ultimate power solution for applications where size and weight are vital factors. Each system consists of an input module with eight slots where any combination of outputs can be fitted to create a power solution with up to sixteen isolated outputs. The series carry full UL60950 2nd Edition safety approvals and comply with EN61000-3, EN61000-4 and EN55022-B EMC standards.

MAIN FEATURES:

- ✓ 1200 watt output at 120VAC
- ✓ 6" x 6" x 1U footprint
- ✓ High power density (21W/in³)
- ✓ EN60950 2nd Edition
- ✓ Primary Side Remote On/Off
- ✓ High efficiency – up to 89%
- ✓ Only 1.2kg – 100W/kg
- ✓ I²C control option
- ✓ Remote current/voltage programming
- ✓ Accurate current sharing
- ✓ Current output signal
- ✓ 2x 5V 1A bias supply
- ✓ RoHS compliant
- ✓ Field configurable
- ✓ Two year warranty



SYSTEM SPECIFICATIONS

INPUT ELECTRICAL						
Parameter	Details	Min	Typ	Max	Units	
AC Input Voltage	Nominal range is 100V to 240V	85		264	Vrms	
AC Input Frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz	
DC Input Voltage	Standard	120		370	Vdc	
Power Rating	See graphs for deratings			1200	Watts	
Input Current	1200W output at 120Vrms input		12		Amps	
Inrush Current	265Vrms (cold start)			40	Amps	
Fusing	5x20 Fast acting			12.5	Amps	
Input Current Limit			14		Amps	
Efficiency	See graphs		86	89	%	
Idle Power	All outputs fitted and enabled		46		Watts	
Idle Power	All outputs fitted and Disabled		32		Watts	
Standby Power	Latched off state, 120Vrms		2.5		Watts	
Power Factor			0.99	0.99		
Holdup	1200W output at 120Vrms input	17	20	21	mS	
UVLO	Turn on only	78		84	Vrms	
Over temperature	Internally monitored. Latching	115		125	°C	
Reliability	40°C 80% load			2	FPMH	
Signals	Output Bias voltage	Two isolated Bias Outputs available	4.8	5	5.2	V
	Output Bias current	Hiccup type current limit	0		1	A
	Power Good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
	Power Good current		0		20	mA
	Inhibit voltage		2		15	V
	Inhibit current	10k ohm input impedance	0.2		1.5	mA
	Global inhibit voltage		3		15	V
	Global inhibit current	5k ohm input impedance	0.6		3	mA
	AC_OK voltage	High output Low output	4.7 0		5.2 0.1	V V
	AC_OK current		-10		10	mA
	AC_OK warning	See user manual for exceptions	5			mS
	Primary Bias voltage	Medically Isolated	4.8	5	5.2	V
	Primary Bias current	Hiccup type current limit			0.5	A
	Primary Remote On/Off	Negative Edge Triggered, Refer to User Manual		5		V

INSTALLATION			
Parameter	Details	Parameter	Details
Equipment class	I	Flammability rating	94V-2
Installation category	II	IP Rating	IP10
Pollution degree	2	ROHS Compliance	2002/95/EC
Material group	IIIb		Indoor use only

RELIABILITY				
Component	Details	Min	Max	Units
FAN	Mag Lev Std (2 Fans per unit)		3.8	FPMH
INPUT	Excluding FAN		2	FPMH
OUTPUT	See individual output datasheets		1	FPMH
Warranty			2	Years

SAFETY				
Parameter	Details	Min	Max	Units
Isolation Voltage	Input to Output		4000	Vac
	Input to Chassis		1500	Vac
	Output to Chassis		250	Vdc
Isolation Clearance	Output to Output		250	Vdc
	Primary to Secondary (Reinforced)	7		mm
Isolation Creepage	Primary to Chassis (Basic)	2.5		mm
	Primary to Secondary (Reinforced)	12		mm
Leakage Current	Primary to Chassis (Basic)	4		mm
	265Vac, 63Hz, 25°C		1500	uA

MECHANICAL	
Parameter	Details
Size	154.5mm (L) x 152.4 mm (W) x 41.0mm (see diagram for tolerance details)
Weight	720 gram +60 gram per output module
Mounting	Bottom (see diagram for details)

ENVIRONMENTAL

Storage	Parameter	Details	Min	Max	Units
	Temperature			-40	+85
Humidity		Relative, non-condensing	5	95	%
Altitude			-200	5000	m
Air Pressure			54	106	kPa
Operation	Temperature	Full power	-20	50	°C
		De-rate input and outputs at 2.5%/°C	50	70	°C
	Humidity		5	95	%
	Altitude		-200	3000	m
	Air Pressure		78	106	kPa
	Noise Level	Unit at idle		42	dBA
		Unit at full power, 25°C Measured 1m from fan intake		61	dBA
Shock	3000 bumps at 10G (16ms) half sine wave				
Vibration	1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes random vibration				

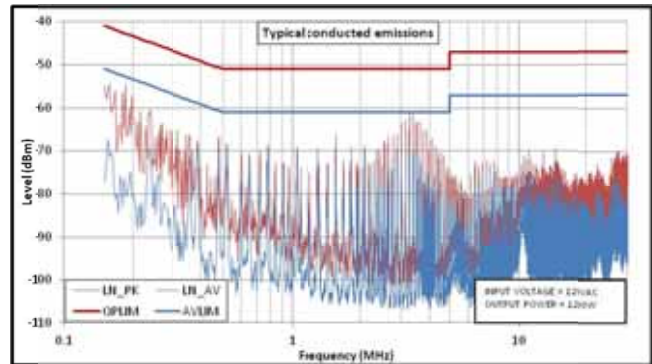
AGENCY APPROVALS

Standard	Details	File
UL60950-1	UL60950-1 2nd edition, revised December 19, 2011	UL: E316486
IEC/EN60950-1	IEC 60950-1:2005 (2nd Edition); Am 1:2009	
CSA-C22.2 No. 60950-1A-07	2nd edition	
CE MARK	LVD 73/23/EEC	
CB certificate and report available on request		

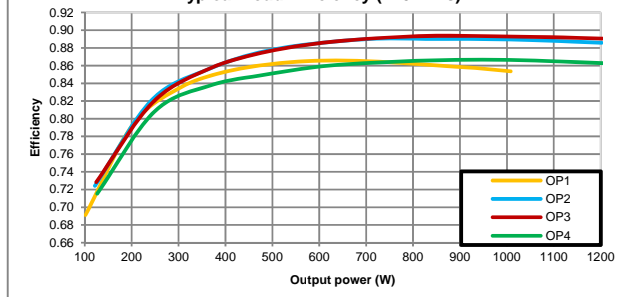
EMC

Emissions	Parameter	Standard	Level
	Radiated electric field	EN55011, EN55022, FCC	A (See Note)
Conducted emissions	EN55011, EN55022, FCC	B	
Harmonic Distortion	EN61000-3-2	Compliant	
Flicker & Fluctuation	EN61000-3-3	Compliant	
Immunity	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
	Fast Transient burst	EN61000-4-4 (4kV)	4
	Input line surges	EN61000-4-5 (1kV L-N, 2kV L-E)	3
	Conducted RFI	EN61000-4-6 (10V)	4
	Power Freq. Magnetic Field	EN61000-4-8 (10A/m)	3
	Voltage Dips	EN61000-4-11 (EN55024)	Compliant

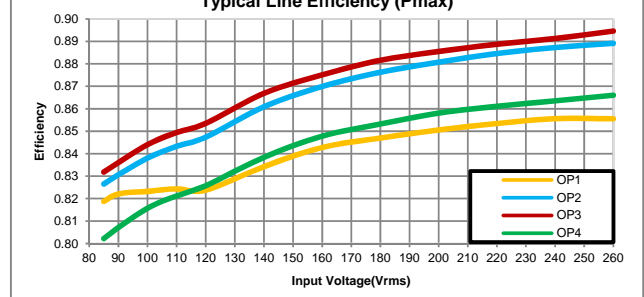
Note: To meet Class B radiated emissions the end user should add ferrites to I/P and O/P cables. Consult Vox Power for details.



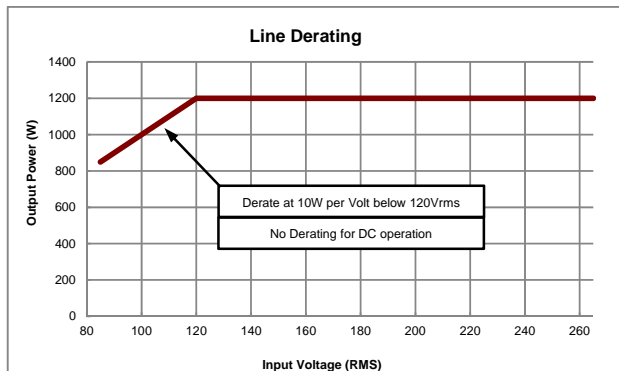
Typical Load Efficiency (220Vrms)



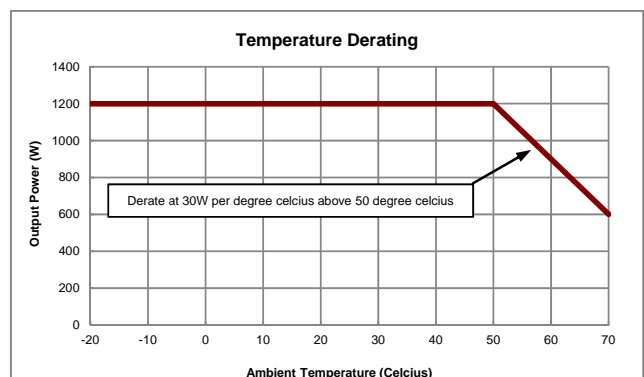
Typical Line Efficiency (Pmax)



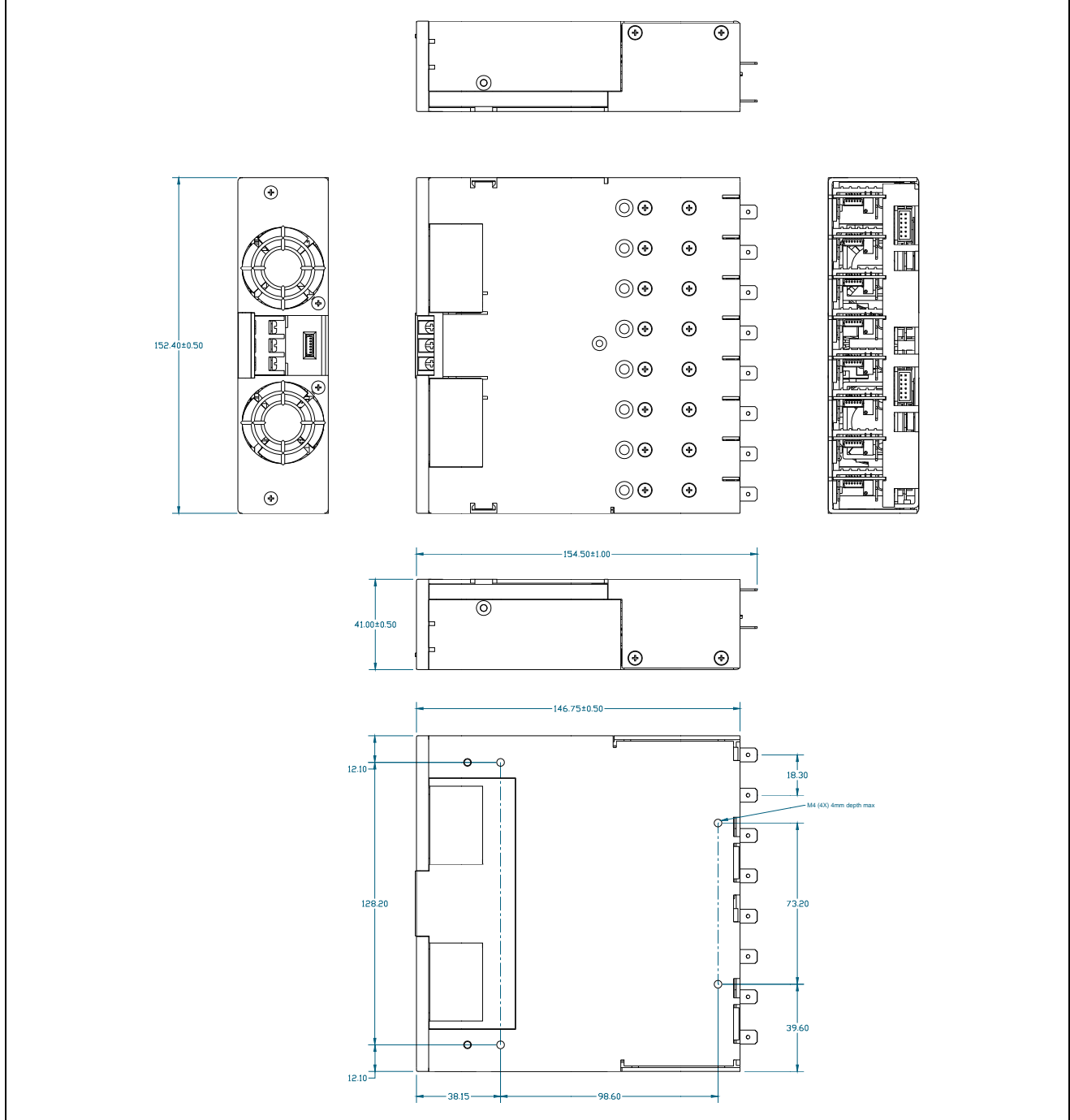
Line Derating



Temperature Derating

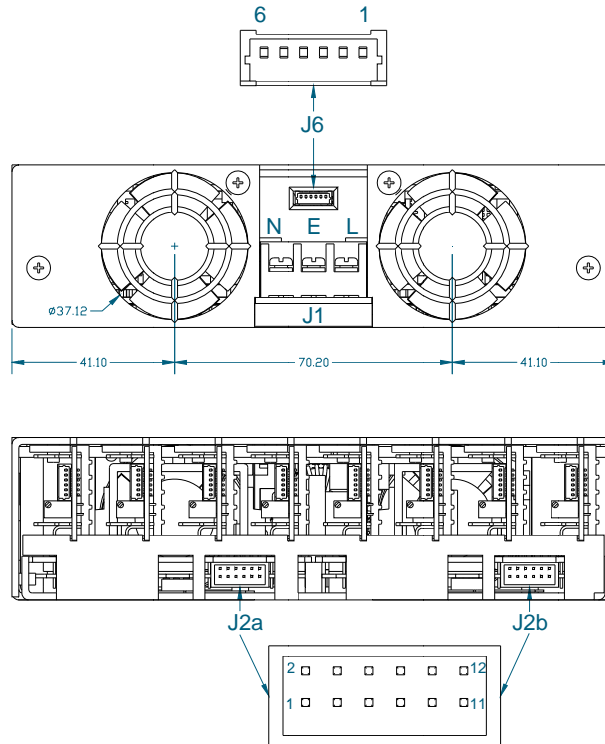


MECHANICAL DIMENSIONS AND MOUNTING SCREWS			
SCREWS			
LOCATION	DETAILS	PENETRATION	TIGHTENING
MOUNTING	M4 x 4	4mm max, including chassis	0.75 NM
OUTPUT MODULES	M3 x 5, Countersink Posi, 16 Places	Defined by screw	0.75 NM
CHASSIS LID AND FACEPLATE	M3 x 5, Countersink Posi, 11 Places	Defined by screw	0.75 NM



CONNECTORS

PINOUTS		
J1		
Circuit	Details	
1	Live	
2	Earth	
3	Neutral	
J2a/b		
Circuit	Details	
1	Power Good	Slot A and E
2	Inhibit	Slot A and E
3	Power Good	Slot B and F
4	Inhibit	Slot B and F
5	Power Good	Slot C and G
6	Inhibit	Slot C and G
7	Power Good	Slot D and H
8	Inhibit	Slot D and H
9	Global Inhibit	
10	AC OK	
11	+5V 1A Bias Supply	
12	COM	
J6		
1	Common	
2	+5V 500mA Bias	
3	Shut Down	
4	Reserved	
5	Reserved	
6	Reserved	

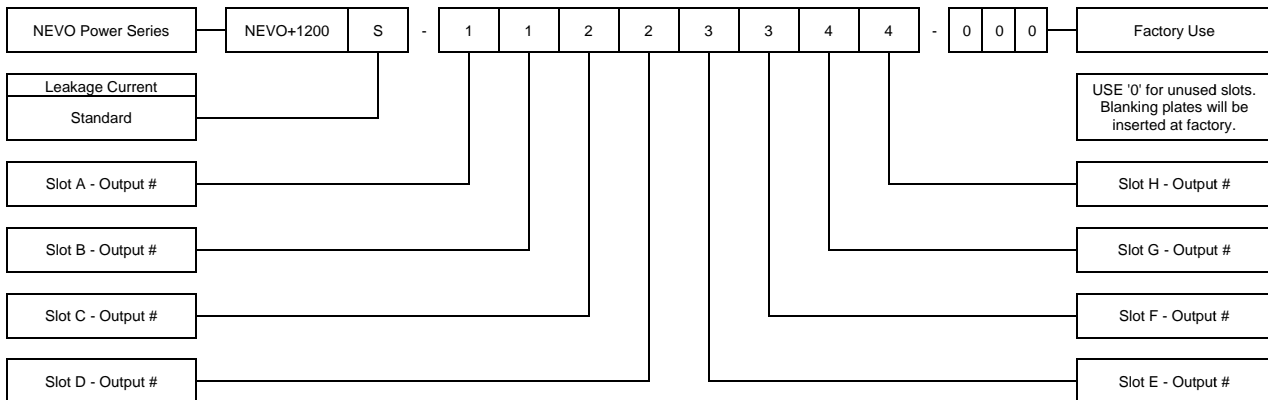


REF	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	MAINS INPUT: 3 Pin, Barrier, 6-32 Steel Screws, 0.8 NM or 7IN LB Torque Cable 14-18AWG, 300V, 16A, 105°C, use appropriately rated fork or ring terminal.	MOLEX		
J2a/b	GLOBAL SIGNALS: 12 Pin, 2mm, with Friction Lock, 24-30 AWG	MOLEX	511101260	503948051
J6	INPUT BIAS: OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	510210600	500588000

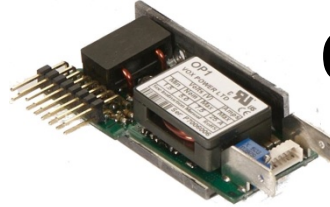
Notes

- Direct equivalents may be used for any connector parts.
- All cables must be rated 105°C min, equivalent to UL1015

PART NUMBERING SYSTEM

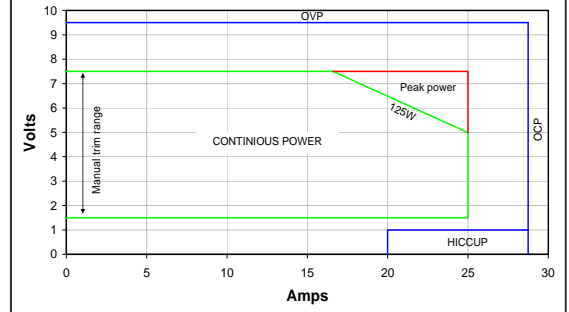
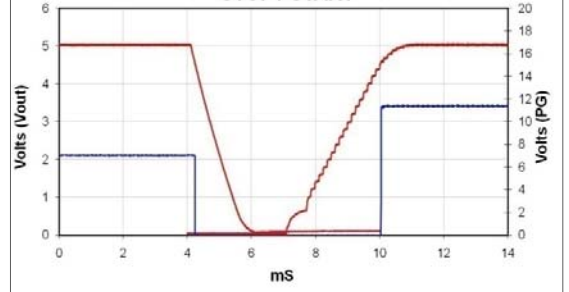
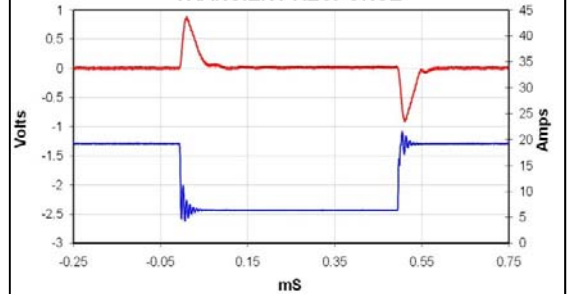
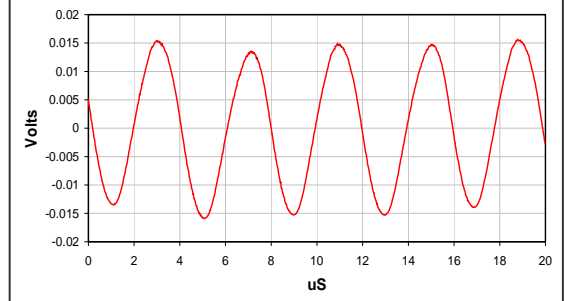


Contact your Distributor or Vox Power for special configuration requirements. The factory may allocate a 3 or 4 digit suffix to identify such requirement.


OUTPUT 1 SPECIFICATIONS

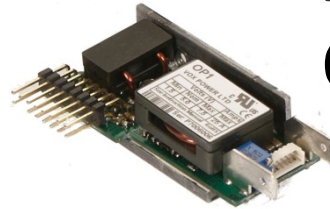
Parameter	Details	Min	Typ	Max	Units
Output voltage range	See table	1.5	5	7.5	V
Rated current				25	A
Average output power				125	Watts
Peak output power	See graph, < 5 seconds 50% duty cycle			187.5	Watts
Initial voltage accuracy	Factory set units	-0.5		0.5	%
Manual Voltage Adjust	11 turn potentiometer		0.545		V/turn
Load Regulation	Measured at sense terminals	-50		50	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnom
Transient response	25% to 75% load transient at 1A/us Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG En to PG		600 15	750 20	mS mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				6	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-6		0	%rated
Short circuit protection (Hiccup mode)	Period Duty cycle Voltage threshold (Measured at sense terminals)		125 3 1		mS % V
Over voltage protection	Latching		9.5		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive Negative	-1		2 1	V V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	$I_{SIG} = 0.6 + I_{OUT} / (I_{RTD} * 1.25)$	0		110	%Irated
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%Irated
Remote voltage control	$V_{OUT} = V_{SET} * ((1.8 - V_{CTRL}) / 0.6)$	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	V
Reliability	40°C 80% load			1	FPMH
Warranty				2	Years
Wire Size		12	10		AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

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OUTPUT 1 POWER PROFILE

STOP / START

TRANSIENT RESPONSE

RIPPLE


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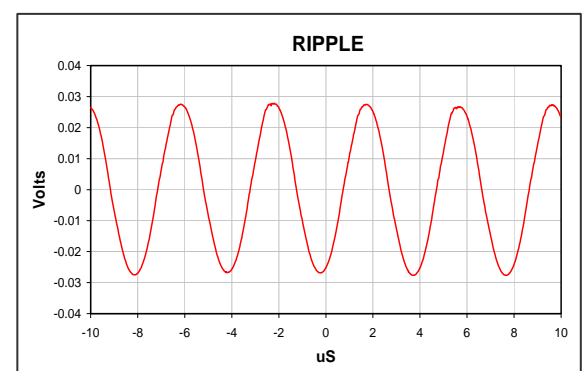
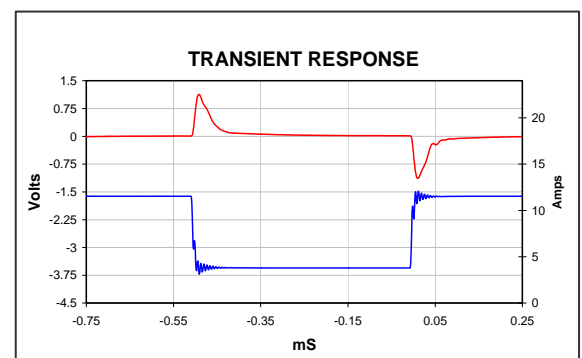
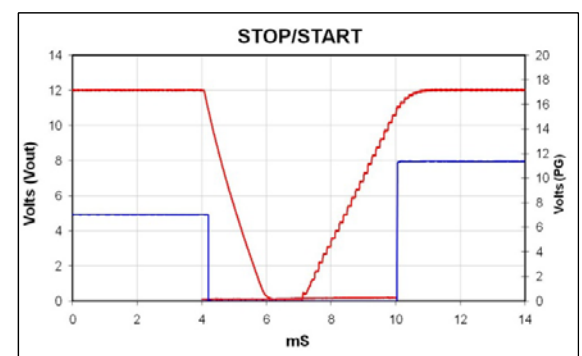
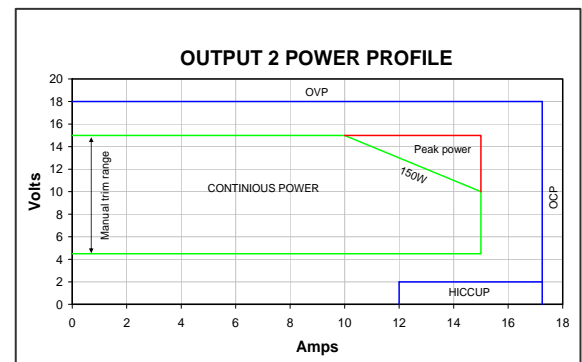
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OUTPUT 2 SPECIFICATIONS

Parameter	Details	Min	Typ	Max	Units
Output voltage range	See table	4.5	12	15	V
Rated current				15	A
Average output power				150	Watts
Peak output power	See graph, < 5 seconds 50% duty cycle			225	Watts
Initial voltage accuracy	Factory set units	-0.5		0.5	%
Manual Voltage Adjust	11 turn potentiometer		0.954		V/turn
Load Regulation	Measured at sense terminals	-100		100	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnom
Transient response	25% to 75% load transient at 0.5A/uS			1.5	V
	Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG		600	750	mS
	En to PG		15	20	mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				12.5	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-6		0	%rated
Short circuit protection (Hiccup mode)	Period		125		mS
	Duty cycle		3		%
	Voltage threshold (Measured at sense terminals)		2		V
Over voltage protection	Latching		18		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive	-1		2	V
	Negative			1	V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	$I_{SIG} = 0.6 \cdot I_{OUT} / (I_{RTD} * 1.25)$	0		110	%Irated
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%Irated
Remote voltage control	$V_{OUT} = V_{SET} * ((1.8 - V_{CTRL}) / 0.6)$	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	V
Reliability	40°C 80% load			1	FPMH
Warranty				2	Years
Wire Size		16	14	10	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

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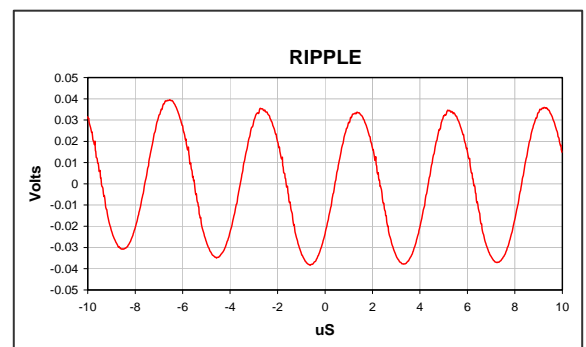
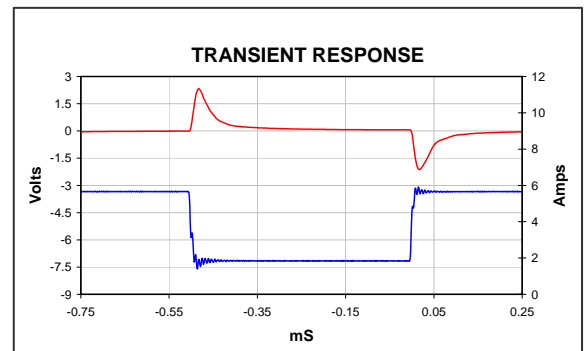
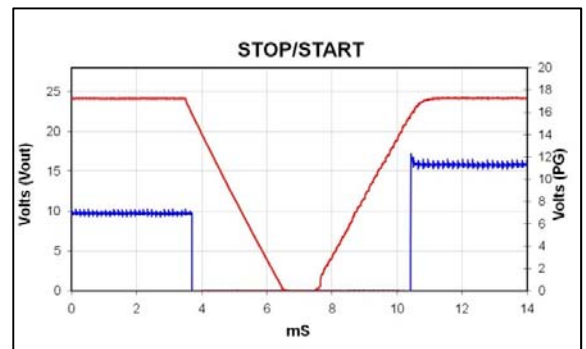
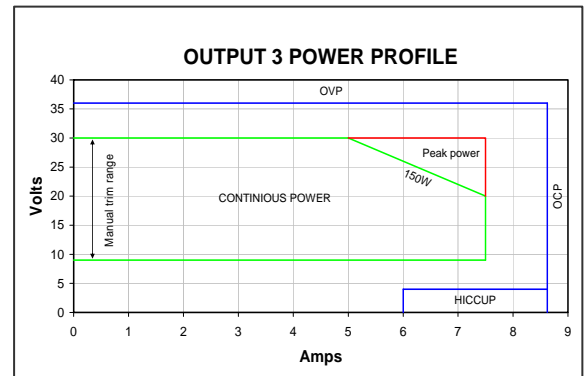
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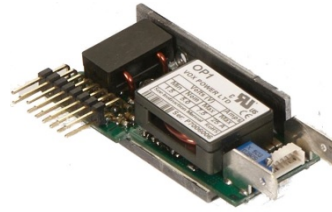
OUTPUT 3 SPECIFICATIONS

Parameter	Details	Min	Typ	Max	Units
Output voltage range	See table	9	24	30	V
Rated current				7.5	A
Average output power				150	Watts
Peak output power	See graph, < 5 seconds 50% duty cycle			225	Watts
Initial voltage accuracy	Factory set units	-0.5		0.5	%
Manual Voltage Adjust	11 turn potentiometer		1.9		V/turn
Load Regulation	Measured at sense terminals	-150		150	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnom
Transient response	25% to 75% load transient at 0.25A/uS			3	V
	Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG		600	750	mS
	En to PG		15	20	mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				25	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-6		0	%rated
Short circuit protection (Hiccup mode)	Period		125		mS
	Duty cycle		3		%
	Voltage threshold (Measured at sense terminals)		3.5		V
Over voltage protection	Latching		36		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive	-1		2	V
	Negative			1	V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	$I_{SIG} = 0.6 \cdot I_{OUT} / (I_{RTD} \cdot 1.25)$	0		110	%Irated
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) \cdot I_{RTD} \cdot 1.25$	0		110	%Irated
Remote voltage control	$V_{OUT} = V_{SET} \cdot ((1.8 - V_{CTRL}) / 0.6)$	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	V
Reliability	40°C 80% load			1	FPMH
Warranty				2	Years
Wire Size		20	18	10	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

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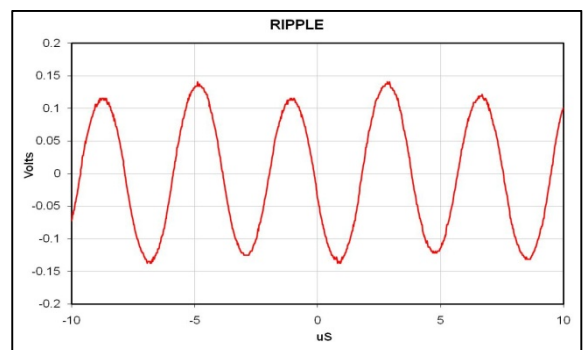
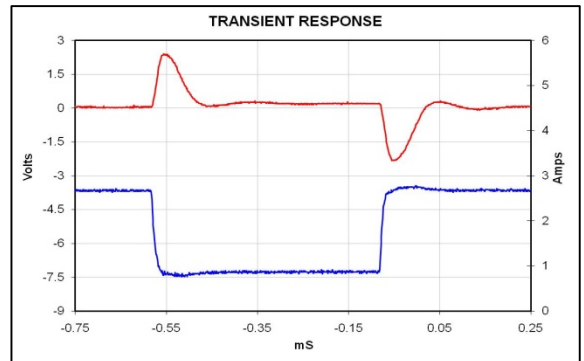
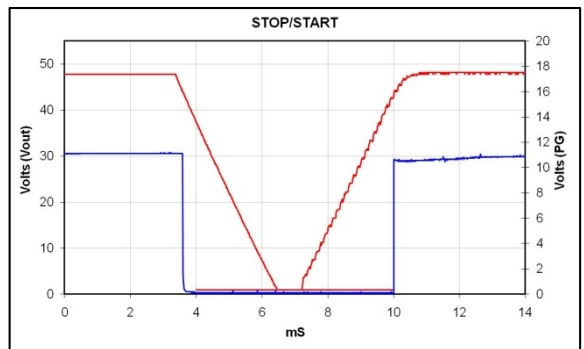
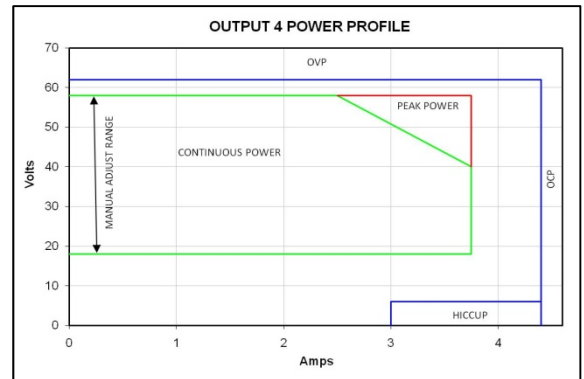
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OUTPUT 4 SPECIFICATIONS

Parameter	Details	Min	Typ	Max	Units
Output voltage range	See table	18	48	58	V
Rated current				3.75	A
Average output power				150	Watts
Peak output power	See graph, < 5 seconds 50% duty cycle			225	Watts
Initial voltage accuracy	Factory set units	-0.5		0.5	%
Manual Voltage Adjust	11 turn potentiometer		3.6		V/turn
Load Regulation	Measured at sense terminals	-300		300	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnom
Transient response	25% to 75% load transient at 0.25A/uS			3	V
	Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG		600	750	mS
	En to PG		15	20	mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				50	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-6		0	%rated
Short circuit protection (Hiccup mode)	Period		125		mS
	Duty cycle		3		%
	Voltage threshold (Measured at sense terminals)		3.5		V
Over voltage protection	Latching		66		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive	-3		3	V
	Negative			2	V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	$I_{SIG} = 0.6 \cdot I_{OUT} / (I_{RTD} \cdot 1.25)$	0		110	%rated
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) \cdot I_{RTD} \cdot 1.25$	0		110	%rated
Remote voltage control	$V_{OUT} = V_{SET} \cdot ((1.8 - V_{CTRL}) / 0.6)$	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	V
Reliability	40°C 80% load			1	FPMH
Warranty				2	Years
Wire Size		20	18	10	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

Notes: All specifications are believed to be correct at time of publication and are subject to change without notice.



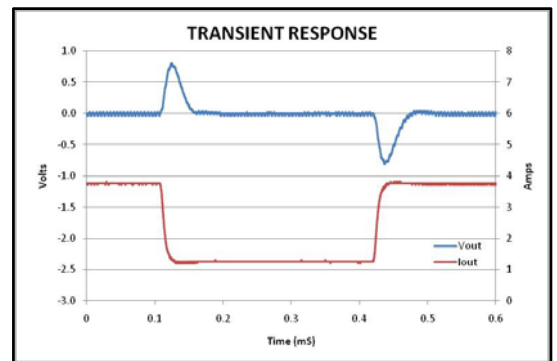
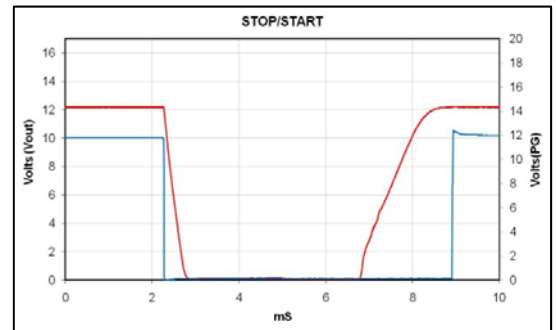
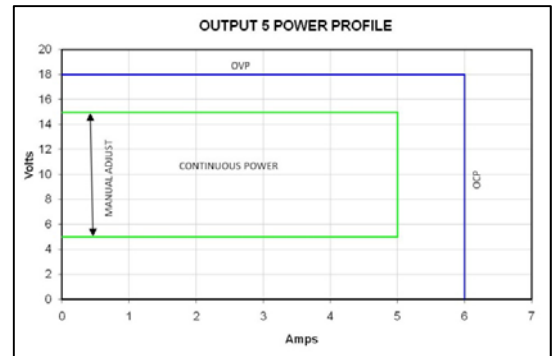
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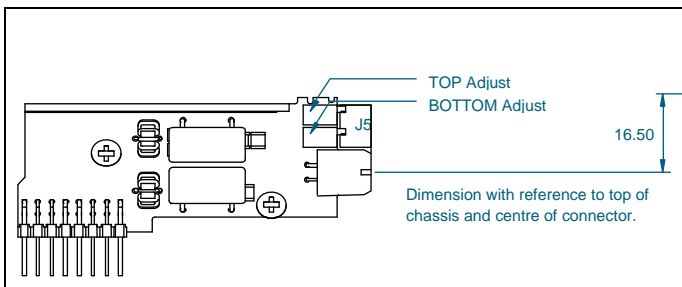


OUTPUT 5 SPECIFICATIONS

Parameter	Details	Min	Typ	Max	Units
Output voltage range	Each channel	5	12	15	V
Rated current	Each channel			5	A
Rated power	Each channel		60	75	Watts
Initial voltage accuracy	Factory set units	-1		1	%
Manual Voltage Adjust	11 turn potentiometer		0.9		V/turn
Load Regulation	Measured at sense terminals	-50		50	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			2	%Vset
Transient response (Vset = 5V)	25% to 75% load transient at 1A/uS			1	V
	Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG		600	750	mS
	En to PG		30	40	mS
Holdup voltage				12	V
Isolation to ground	Each terminal			250	V
Over current protection	Hiccup mode only	105		130	%rated
Reverse current protection	None				
Short circuit protection (Hiccup mode)	Period		30		mS
	Duty cycle		1		%
Over voltage protection	Latching		20		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Power Good thresholds	High and Low window	68		120	%Vset
Reliability	25°C, 100% load, Telcordia			1	FPMH
Warranty				2	Years
Wire Size		20	18	10	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

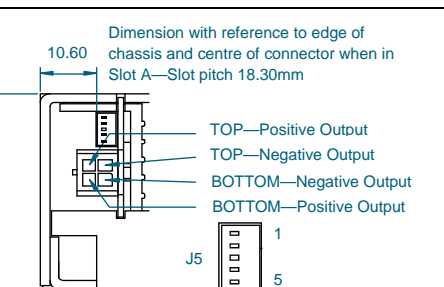
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Dimension with reference to edge of chassis and centre of connector when in Slot A—Slot pitch 18.30mm

Dimension with reference to top of chassis and centre of connector.



TOP—Positive Output
TOP—Negative Output
BOTTOM—Negative Output
BOTTOM—Positive Output

J5	
Circuit	Details
1	Top + Sense
2	Top - Sense
3	Open
4	Bottom + Sense
5	Bottom -Sense

REF.	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	OUTPUT POWER CONNECTOR: 4 Pin, with Friction lock, 20-24 AWG	MOLEX	430250400	430300001

Notes: 1. Terminal and Wire current rating must exceed maximum output current. 2. Direct equivalents may be used for any connector parts 3. All cables must be rated 105°C min, equivalent to UL1015

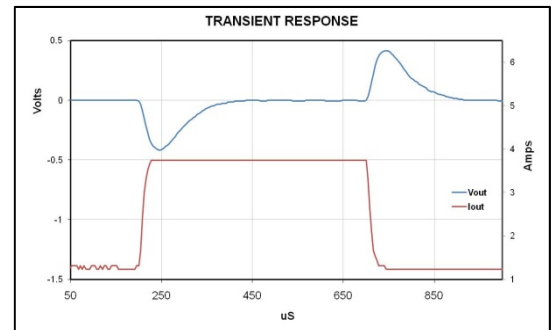
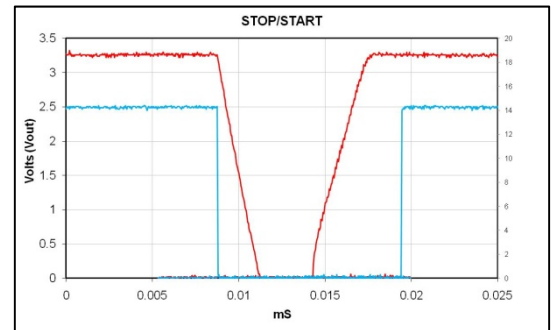
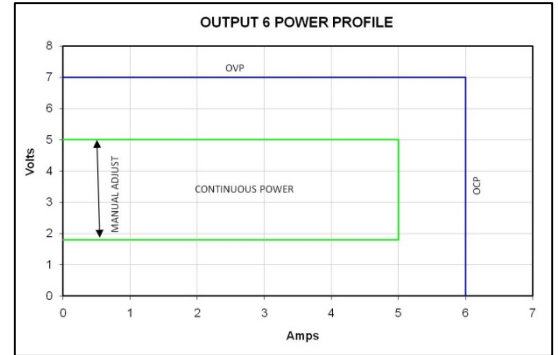
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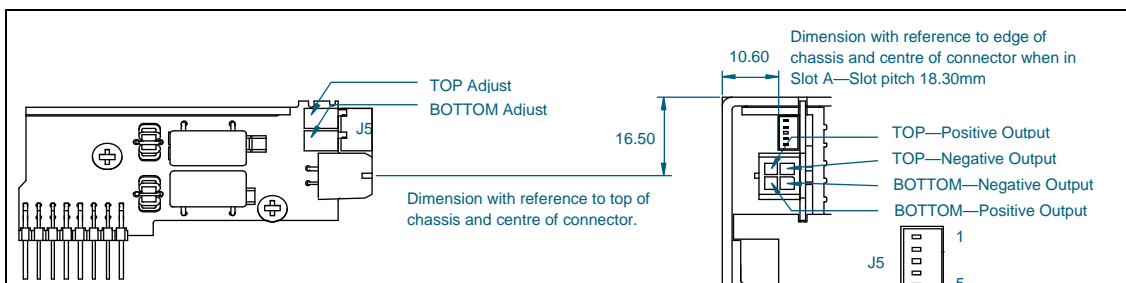


OUTPUT 6 SPECIFICATIONS

Parameter	Details	Min	Typ	Max	Units
Output voltage range	Each channel	1.8	3.3	5	V
Rated current	Each channel			5	A
Rated power	Each channel		16.5	25	Watts
Initial voltage accuracy	Factory set units	-1		1	%
Manual Voltage Adjust	11 turn potentiometer		0.3		V/turn
Load Regulation	Measured at sense terminals	-50		50	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			2	%Vset
Transient response (Vset = 5V)	25% to 75% load transient at 1A/uS			0.5	V
	Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG		600	750	mS
	En to PG		15	20	mS
Holdup voltage				5	V
Isolation to ground	Each terminal			250	V
Over current protection	Hiccup mode only	105		130	%rated
Reverse current protection	None				
Short circuit protection (Hiccup mode)	Period		30		mS
	Duty cycle		1		%
Over voltage protection	Latching		8		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Power Good thresholds	High and Low window	68		120	%Vset
Reliability	25°C, 100% load, Telcordia			1	FPMH
Warranty				2	Years
Wire Size		24	22	20	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

Notes: All specifications are believed to be correct at time of publication and are subject to change without notice.





J5	
Circuit	Details
1	Top + Sense
2	Top - Sense
3	Open
4	Bottom + Sense
5	Bottom -Sense

REF.	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	OUTPUT POWER CONNECTOR: 4 Pin, with Friction lock, 20-24 AWG	MOLEX	430250400	430300001

Notes: 1. Terminal and Wire current rating must exceed maximum output current. 2. Direct equivalents may be used for any connector parts 3. All cables must be rated 105°C min, equivalent to UL1015

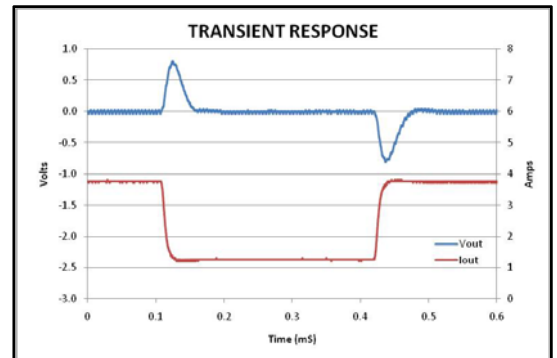
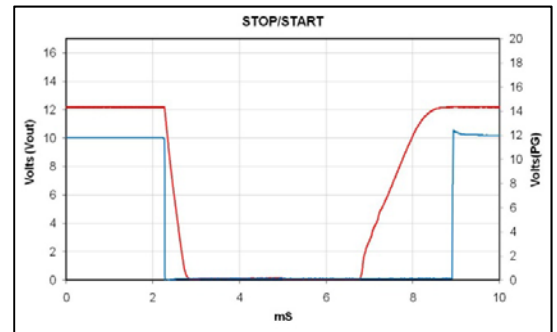
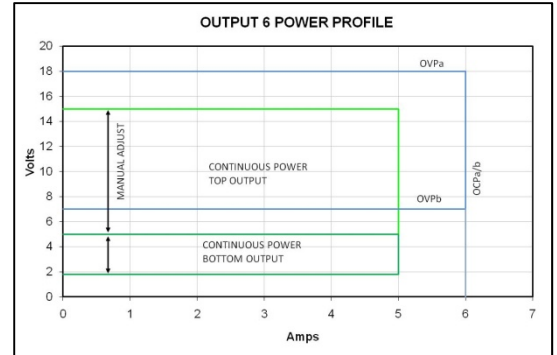
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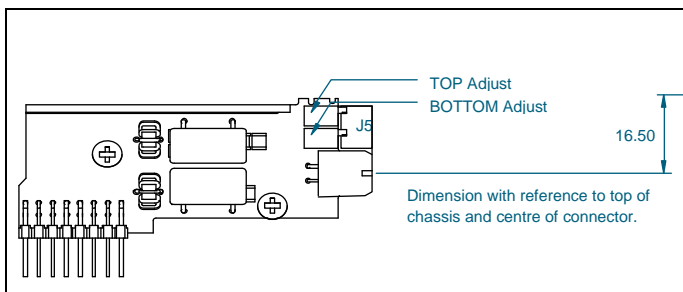


OUTPUT 7 SPECIFICATIONS

Parameter	Details	Min	Typ	Max	Units
Output voltage range	Top/Bottom channel	1.8/5	3.3/12	5/15	V
Rated current	Each channel			5	A
Rated power	Top/Bottom channel		60/16.5	75/25	Watts
Initial voltage accuracy	Factory set units	-1		1	%
Manual Voltage Adjust	11 turn potentiometer		0.3/0.9		V/turn
Load Regulation	Measured at sense terminals	-50		50	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			2	%Vset
Transient response (Vset = 5V)	25% to 75% load transient at 1A/uS			1/0.5	V
	Recovery to within 10% of Vset			100	uS
Turn on rise time	Monotonic 10% to 90%	1		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG		600	750	mS
	En to PG		15	20	mS
Holdup voltage				12/5	V
Isolation to ground	Each terminal			250	V
Over current protection	Hiccup mode only	105		130	%rated
Reverse current protection	None				
Short circuit protection (Hiccup mode)	Period		30		mS
	Duty cycle		1		%
Over voltage protection	Latching		20/8		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Power Good thresholds	High and Low window	68		120	%Vset
Reliability	25°C, 100% load, Telcordia			1	FPMH
Warranty				2	Years
Wire Size		24	22	20	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

Notes: All specifications are believed to be correct at time of publication and are subject to change without notice.





TOP Adjust
BOTTOM Adjust

Dimension with reference to top of chassis and centre of connector.

16.50

10.60

Dimension with reference to edge of chassis and centre of connector when in Slot A—Slot pitch 18.30mm

J5

1
5

J5	
Circuit	Details
1	Top + Sense
2	Top - Sense
3	Open
4	Bottom + Sense
5	Bottom -Sense

REF.	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	OUTPUT POWER CONNECTOR: 4 Pin, with Friction lock, 20-24 AWG	MOLEX	430250400	430300001

Notes: 1. Terminal and Wire current rating must exceed maximum output current. 2. Direct equivalents may be used for any connector parts 3. All cables must be rated 105°C min, equivalent to UL1015

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