

Features

Regulated Converter

- 4:1 wide input range
- 3kVAC reinforced insulation for 110Vin
2.25kVDC basic insulation for 24Vin & 48Vin
- Efficiency up to 93%
- No minimum load required
- EN50155, IEC/EN60950-1 & UL60950-1 certified

RECOM
DC/DC Converter

RP100H-RW

100 Watt
Half Brick
Single Output



C_{UL} US
E196683



EN50155 certified
IEC/EN60950-1 certified
UL60950-1 certified

Description

The half-brick RP100H series DC/DC converters are designed for railway rolling stock and high voltage battery applications. Each series has three 4:1 input voltage range options to cover all input voltages from 9VDC up to 160VDC with isolated and regulated 5V to 48VDC outputs. The converters have high efficiencies and metal base-plates to permit a wide operating temperature range from -40°C to +85°C (when mounted on a suitable heatsink). The case is fitted with threaded inserts to allow secure mounting to the PCB or bulkhead for use in high shock and vibration environments. The converters are EN50155, UL60950 and IEC/EN60950 certified. The RP100H-RW series have a three year warranty.

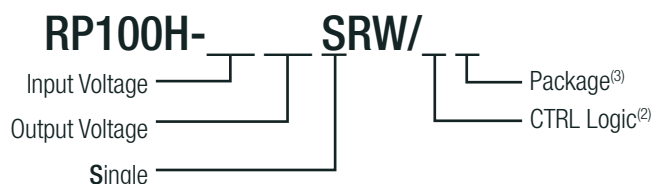
Selection Guide

Part Number	Input Voltage Range [VDC]	Output Voltage [VDC]	Output Current [mA]	Input ⁽¹⁾ Current [mA]	Output Power [W]	Efficiency ⁽¹⁾ typ. [%]	Max. Capacitive Load [μF]
RP100H-2405SRW	9-36	5	20000	4480	100	93	40000
RP100H-2412SRW	9-36	12	8400	4666	101	90	7000
RP100H-2415SRW	9-36	15	6700	4601	100	91	4460
RP100H-2424SRW	9-36	24	4200	4666	101	90	1750
RP100H-2448SRW	9-36	48	2100	4666	101	90	430
RP100H-4805SRW	16.5-75	5	20000	2240	100	93	40000
RP100H-4812SRW	16.5-75	12	8400	2333	101	90	7000
RP100H-4815SRW	16.5-75	15	6700	2300	100	91	4460
RP100H-4824SRW	16.5-75	24	4200	2333	101	90	1750
RP100H-4848SRW	16.5-75	48	2100	2307	101	90	430
RP100H-11005SRW	43-160	5	20000	1010	100	93	40000
RP100H-11012SRW	43-160	12	8400	1018	101	90	7000
RP100H-11015SRW	43-160	15	6700	1015	100	91	4460
RP100H-11024SRW	43-160	24	4200	1018	101	90	1750
RP100H-11048SRW	43-160	48	2100	1007	101	90	430

Notes:

Note1: Efficiency is tested by nominal Vin, full load and at 25°C

Model Numbering



Notes:

Note2: standard part is with suffix "P" for positive logic (1=ON, 0=OFF)
or add suffix "N" instead for negative logic (0=ON, 1=OFF)
for more details refer to "ON/OFF CTRL ⁽⁴⁾"

Note3: add suffix "-HC" for premounted Heat-sink (refer to "Dimension Drawing Heat-sink (mm)")
(compatible with all other suffixes)

Ordering Examples

RP100H-2405SRW/N = 24V Input, 5V Output, Single, Neg. CTRL function

RP100H-11012SRW/P = 110V Input, 12V Output, Single, Pos. CTRL function

RP100H-2405SRW/N-HC = 24V Input, 5V Output, Single, Neg. CTRL function, premounted Heat-sink



<https://recom-power.com/rec-s-R-REF04-RIA12.html>



<https://recom-power.com/rec-s-RSPxxx-168.html>

Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

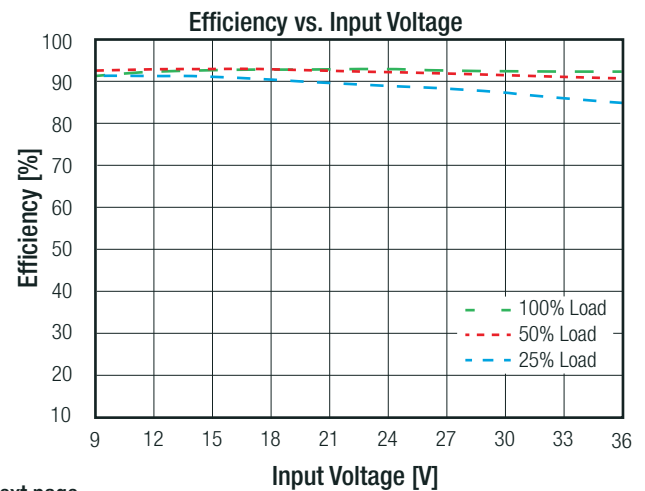
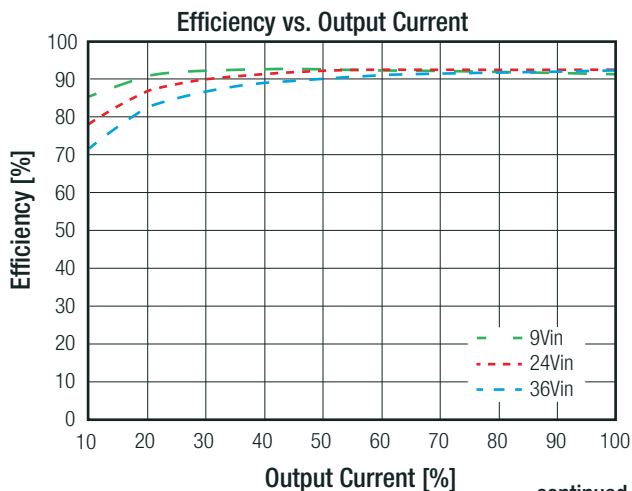
BASIC CHARACTERISTICS

Parameter	Condition		Min.	Typ.	Max.
Internal Input Filter			Pi-Type		
Input Voltage Range	nom Vin = 24V nom Vin = 48V nom Vin = 110V		9VDC 16.5VDC 43VDC	24VDC 48VDC 110VDC	36VDC 75VDC 160VDC
Input Surge Voltage	Vin = 24V, 1s max. Vin = 48V, 1s max. Vin = 110V, 1s max.				50VDC 100VDC 185VDC
Under Voltage Lockout (UVLO)	Vin = 24V	DC-DC ON DC-DC OFF	7.3VDC		9VDC 8.1VDC
	Vin = 48V	DC-DC ON DC-DC OFF	15.5VDC		18VDC 16.3VDC
	Vin = 110V	DC-DC ON DC-DC OFF	33.0VDC		43VDC 36.0VDC
Quiescent Current	Vin = 24V Vin = 48V Vin = 110V		25mA 15mA	10mA	35mA 25mA
Output Voltage Trimming	refer to "OUTPUT VOLTAGE TRIMMING"		-20%		+10%
Minimum Load			0%		
Start-up time	Power up Remote ON/OFF			75ms 75ms	
ON/OFF CTRL ⁽⁴⁾ refer to "ON/OFF CTRL"	Positive Logic	DC-DC ON DC-DC OFF	Open or 3.0VDC < V _{CTRL} < 12VDC Short or 0VDC < V _{CTRL} < 1.2VDC		
	Negative Logic	DC-DC ON DC-DC OFF	Short or 0VDC < V _{CTRL} < 1.2VDC Open or 3.0VDC < V _{CTRL} < 12VDC		
Input Current of CTRL pin	drive current	I _{CTRL}	-0.5mA		1mA
Standby Current	DC-DC OFF	I _{in}		3mA	
Internal Operating Frequency	Vin = 24V, Vin = 48V Vin = 110V		225kHz 270kHz	250kHz 300kHz	275kHz 330kHz
Output Ripple and Noise	Measured by 20MHz BW	with a 1μF/25V X7R MLCC & a 22μF/25V POS Cap with a 1μF/25V X7R MLCC & a 22μF/25V POS Cap with a 4.7μF/50V X7R MLCC with a 2.2μF/100V X7R MLCC	5 Vout 12, 15Vout 24Vout 48Vout	75mVp-p 100mVp-p 200mVp-p 300mVp-p	
Remote Sense	% of nom Vout (refer to "REMOTE SENSE")				10%

Notes:

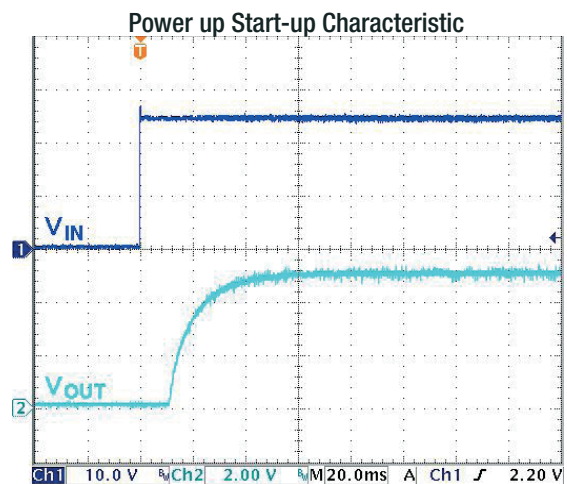
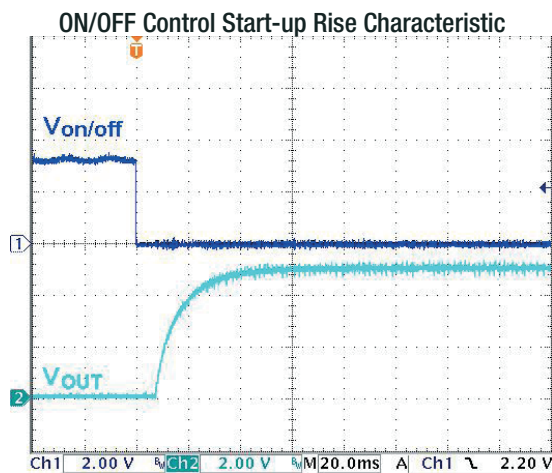
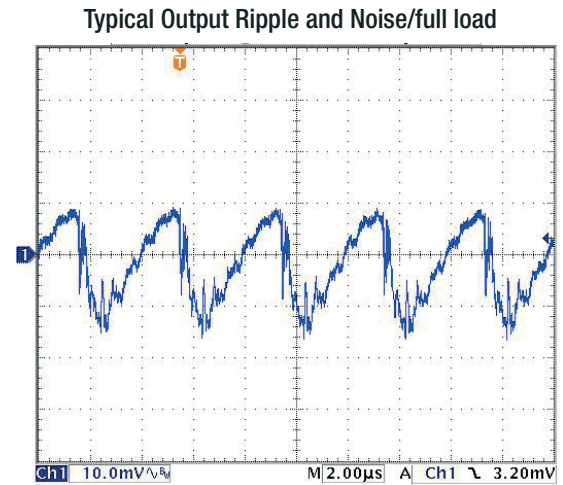
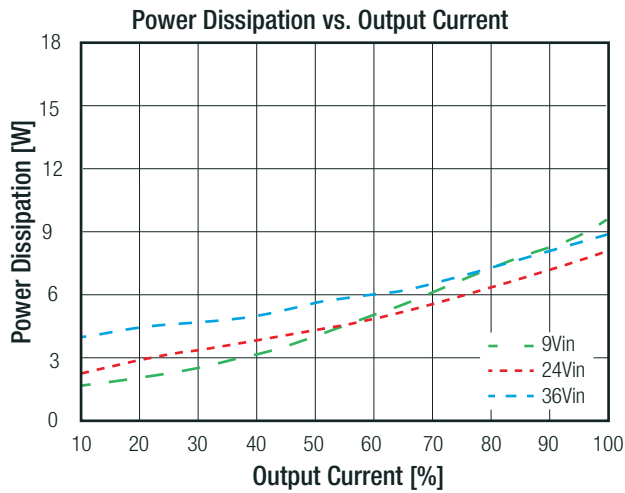
Note4: The ON/OFF control function can be positive or negative logic. The pin voltage is referenced to -Vin

RP100H-2405SRW

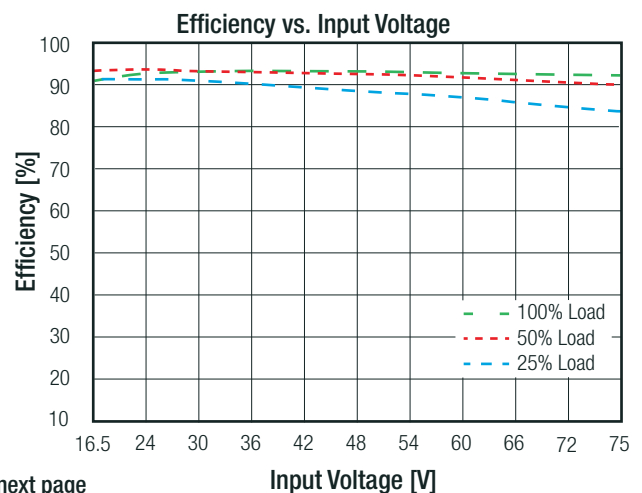
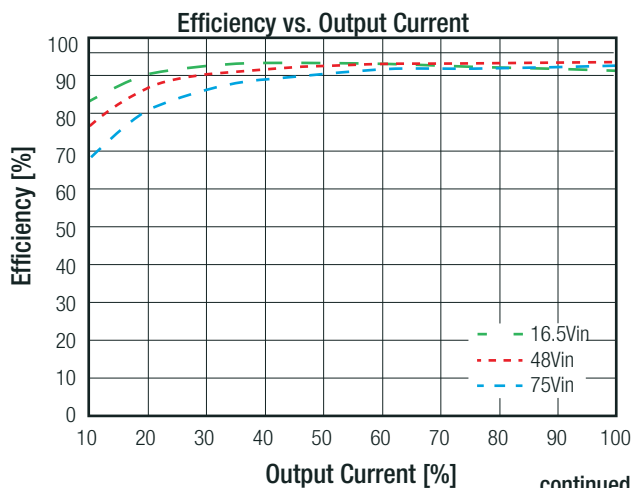


Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP100H-2405SRW



RP100H-4805SRW

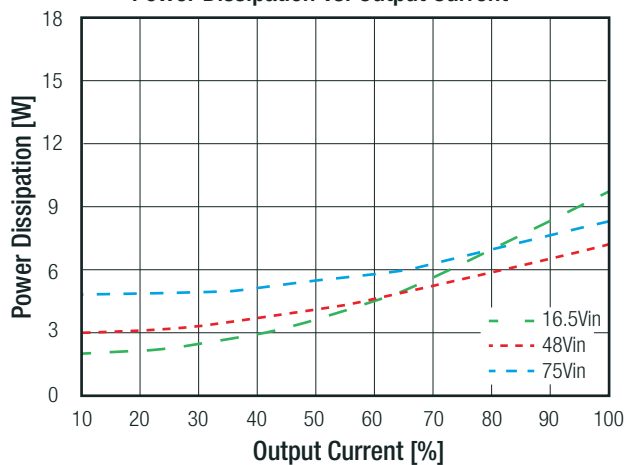


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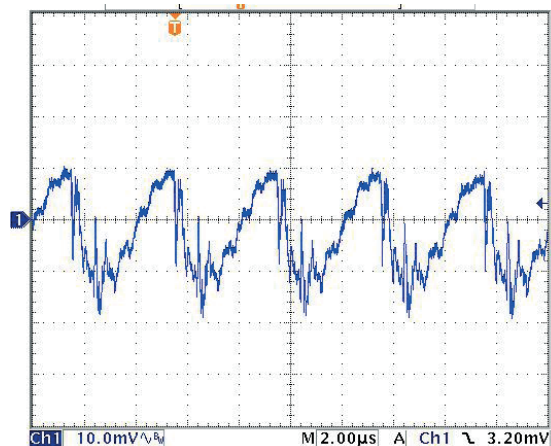
Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP100H-4805SRW

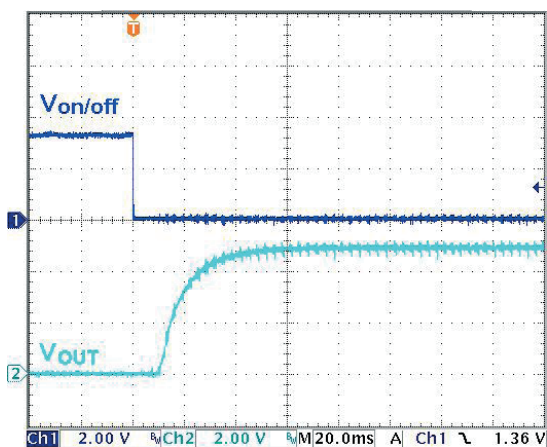
Power Dissipation vs. Output Current



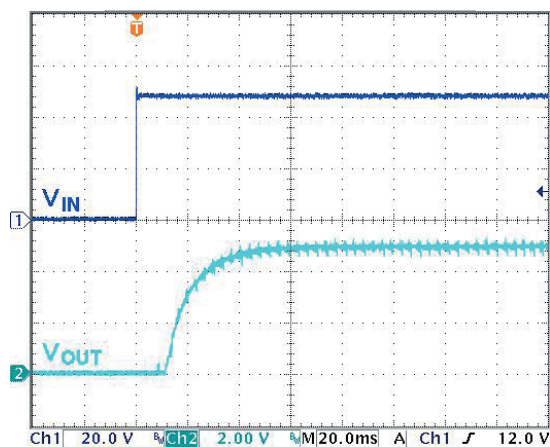
Typical Output Ripple and Noise/full load



ON/OFF Control Start-up Rise Characteristic

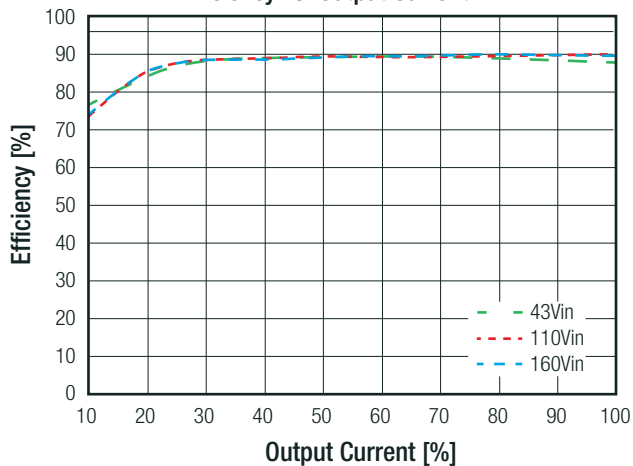


Power up Start-up Characteristic

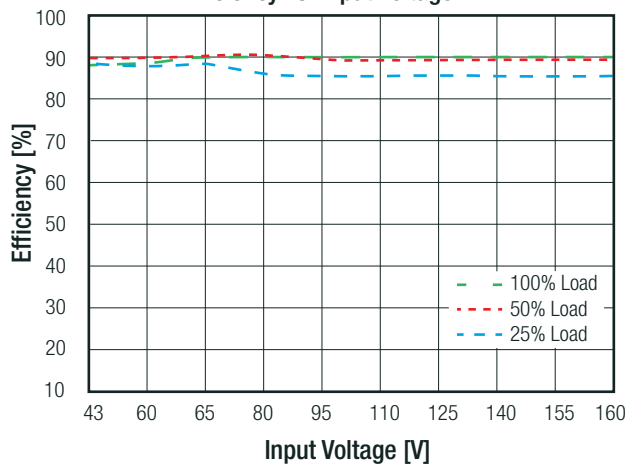


RP100H-11005SRW

Efficiency vs. Output Current



Efficiency vs. Input Voltage

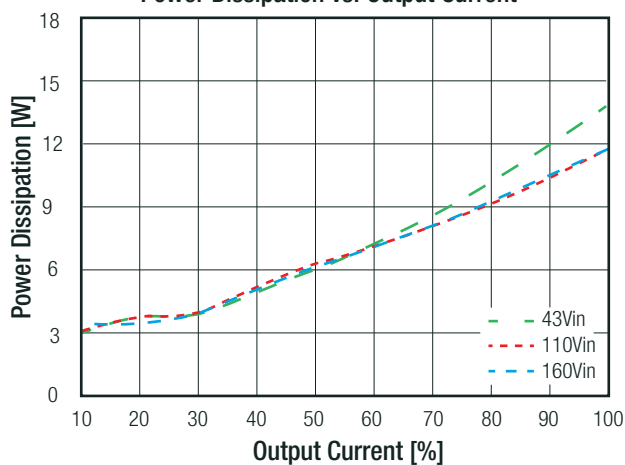


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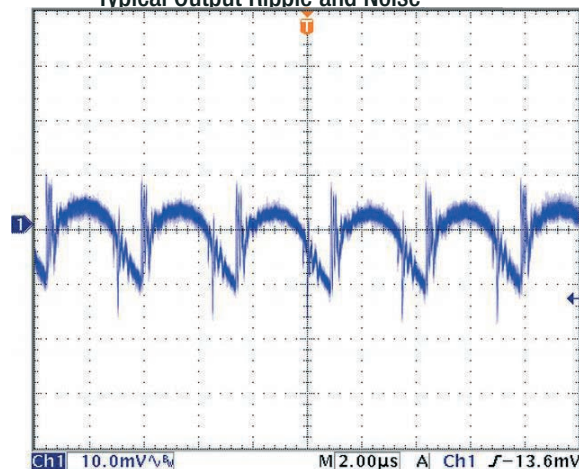
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RP100H-11005SRW

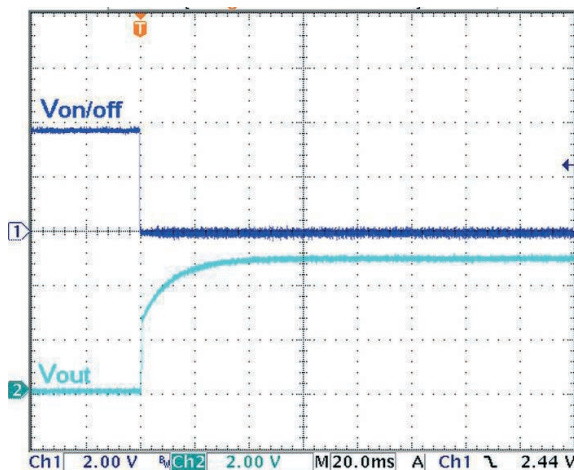
Power Dissipation vs. Output Current



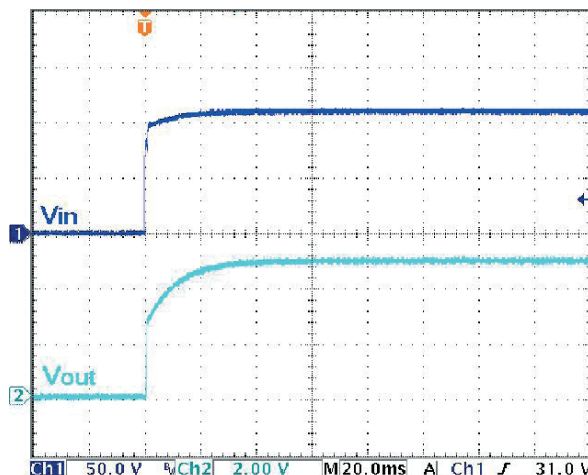
Typical Output Ripple and Noise



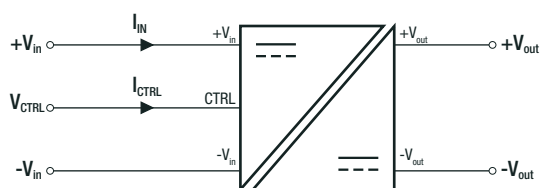
ON/OFF Control Start-up Rise Characteristic



Power up Start-up Characteristic



ON/OFF CTRL



Positive Logic

DC-DC ON
DC-DC OFF

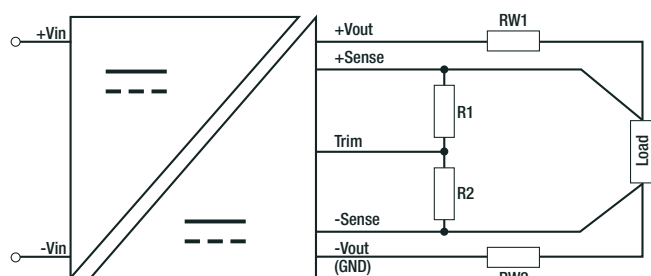
Open or $3.0\text{VDC} < V_{\text{CTRL}} < 12\text{VDC}$
Short or $0\text{VDC} < V_{\text{CTRL}} < 1.2\text{VDC}$

Negativ Logic

DC-DC ON
DC-DC OFF

Short or $0\text{VDC} < V_{\text{CTRL}} < 1.2\text{VDC}$
Open or $3.0\text{VDC} < V_{\text{CTRL}} < 12\text{VDC}$

REMOTE SENSE



The output voltage can be adjusted by both trim and remote sense. The maximum combined adjustment range $\pm 10\%$. Derate the maximum output power if using the trim or sense function.

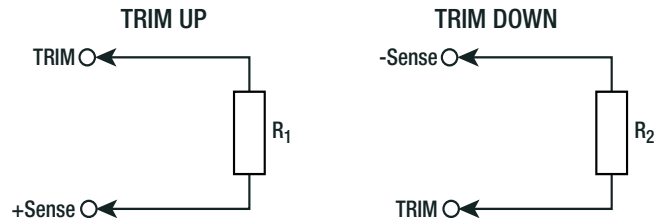
- R_{W1} ... wire losses +
- R_{W2} ... wire losses -
- R₁ ... trim up resistor
- R₂ ... trim down resistor

Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

OUTPUT VOLTAGE TRIMMING

Output Voltage Trimming

RP100H-RW converters offer the feature of trimming the output voltage over a certain range around the nominal value by using external trim resistors. The values for trim resistors shown in trim tables below are according to standard E96 values; therefore, the specified voltage may slightly vary; they also can be calculated with below shown equation.



Trim Calculation

$$R_1 = \left[\frac{100 \cdot V_{out} + \Delta V_{out} \cdot V_{out}}{1.225 \cdot \Delta V_{out}} - \frac{(100 + 2 \Delta V_{out})}{\Delta V_{out}} \right] k\Omega$$

$$R_2 = \left[\frac{100}{\Delta V_{out}} - 2 \right] k\Omega$$

V_{out} = Output Voltage
 ΔV_{out} = Output Voltage Trim in %
 R₁ = trim up resistor
 R₂ = trim down resistor

Practical Example:

Trim Up:

V_{out} = 5V, ΔV_{out} = 10% (5.5V)

$$R_1 = \left[\frac{100 \cdot V_{out} + \Delta V_{out} \cdot V_{out}}{1.225 \cdot \Delta V_{out}} - \frac{(100 + 2 \Delta V_{out})}{\Delta V_{out}} \right] k\Omega = \left[\frac{100 \cdot 5 + 10 \cdot 5}{1.225 \cdot 10} - \frac{100 + 2 \cdot 10}{10} \right] = 44.89 - 12 = 32.9 k\Omega$$

Trim down:

V_{out} = 5V, ΔV_{out} = -10% (4.5V)

$$R_2 = \left[\frac{100}{\Delta V_{out}} - 2 \right] k\Omega = \frac{100}{10} - 2 = 8.06 k\Omega$$

RP100H-xx05SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
V _{out} =	5.05	5.10	5.15	5.20	5.25	5.30	5.35	5.4	5.45	5.50	Volts
R ₁ =	309	158	105	78.7	63.4	53.6	46.4	40.2	36.5	33.2	kOhms

RP100H-xx12SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
V _{out} =	12.12	12.24	12.36	12.48	12.60	12.72	12.84	12.96	13.08	13.20	Volts
R ₁ =	887	453	301	226	182	154	133	118	105	95.3	kOhms

RP100H-xx15SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
V _{out} =	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	16.50	Volts
R ₁ =	1130	576	383	294	237	196	169	150	137	124	kOhms

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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

OUTPUT VOLTAGE TRIMMING

RP100H-xx24SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
Vout =	24.24	24.48	24.72	24.96	25.20	25.44	25.68	25.92	26.16	26.40	Volts
R _U =	1870	953	634	487	392	324	280	249	226	205	kOhms

RP100H-xx48SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
Vout =	48.48	48.96	49.44	49.92	50.40	50.88	51.36	51.84	52.32	52.80	Volts
R _U =	3830	1960	1300	1000	806	681	576	511	464	422	kOhms

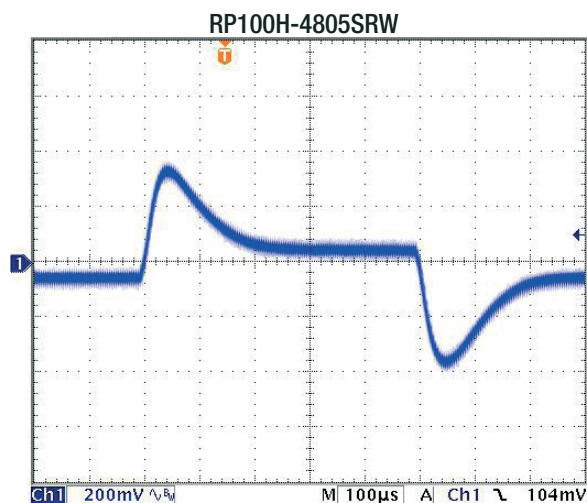
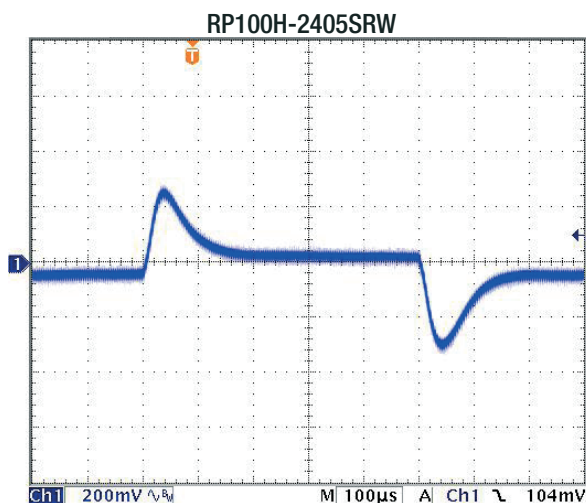
Trim Down all Vout's

Trim down	1	2	3	4	5	6	7	8	9	10	%
R ₂ =	97.6	47.5	31.6	23.2	17.8	14.7	12.1	10.5	9.09	8.06	kOhms
Trim down	11	12	13	14	15	16	17	18	19	20	%
R ₂ =	7.15	6.34	5.76	5.11	4.64	4.22	3.92	3.57	3.24	3.01	kOhms

REGULATIONS

Parameter	Condition	Value
Output Accuracy		±1.0%
Line Regulation	low line to high line at full load	±0.1%
Load Regulation	0% to 100% load	0.1%
Transient Response	25% load step change	200µs typ.; 250µs max.

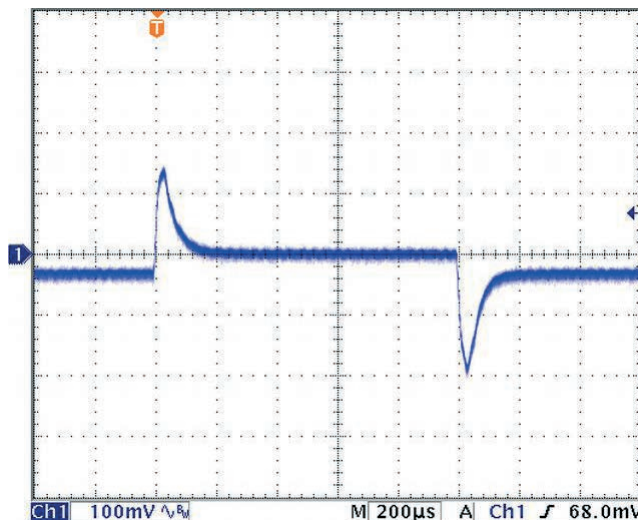
Transient Response to Dynamic Load Change from 100% to 75% to 100% of Full Load at nom.Vin



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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP100H-11005SRW



PROTECTIONS

Parameter	Condition		Value
Short Circuit Protection (SCP)	below 100mΩ		continuous, automatic recovery
Over Voltage Protection (OVP)	% of nom. Vout		115%-130%, Hiccup Mode
Over Load Protection (OLP)	% Iout rated	24Vin, 48Vin 110Vin	120%-150%, Hiccup Mode 150% typ., Hiccup Mode
Over Temperature Protection (OTP)			+110°C to +120°C
Isolation Voltage	110Vin	I/P to O/P I/P or O/P to Case	3kVAC/1 minute 1.5kVAC/1 minute
	24Vin, 48Vin	I/P to O/P I/P or O/P to Case	2.25kVDC/1 minute 1.6kVDC/1 minute
Isolation Resistance	500 VDC		1GΩ min.
Isolation Capacitance			2500pF max.
Isolation Grade	110 Vin 24Vin, 48Vin		reinforced insulation basic insulation

Notes:

Note5: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T35A slow blow.

ENVIRONMENTAL

Parameter	Condition	Value
Operating Case Temperature Range		refer to derating graph
Maximum Case Temperature		105°C
Temperature Coefficient		±0.02%/°C max.
Thermal Impedance	vertical direction by natural convection (0.1m/s) without Heat-sink vertical direction by natural convection (0.1m/s) with Heat-sink	6.7°C/W 4.7°C/W
Operating Humidity		5% - 95% RH
Pollution Degree		PD2
Shock		according to EN61373 standard
Thermal Shock		according to MIL-STD-810F standard
Vibration		according to EN61373 standard
Fire protection on railway vehicles		according to EN45545-2, 2013 standard
MTBF	according to MIL-HDBK-217F standard, 25°C	408.7 x 10 ³ hours

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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

Thermal Calculation

$$R_{th\text{case-ambient}} = 6.7^{\circ}\text{C/W (vertical)}$$

$$R_{th\text{case-ambientHC}} = 4.7^{\circ}\text{C/W (vertical)}$$

$$R_{th\text{case-ambient}} = \frac{T_{\text{case}} - T_{\text{ambient}}}{P_{\text{dissipation}}}$$

$$P_{\text{dissipation}} = P_{\text{IN}} - P_{\text{OUT}} = \frac{P_{\text{OUTapp}}}{\eta} - P_{\text{OUTapp}}$$

T_{case}	=	Case Temperature
T_{ambient}	=	Environment Temperature
$P_{\text{dissipation}}$	=	Internal losses
P_{IN}	=	Input Power
P_{OUT}	=	Output Power
η	=	Efficiency under given Operating Conditions
$R_{th\text{case-ambient}}$	=	Thermal Impedance

Practical Example:

Take the RP100H-2405SRW with 9V input Voltage and 50% load. What is the maximum ambient operating temperature? Use converter vertical in application without airflow.

$$\text{Eff}_{\text{min}} = 91\% @ V_{\text{nom}}$$

$$P_{\text{OUT}} = 100\text{W}$$

$$P_{\text{OUTapp}} = 100 \times 0.5 = 50\text{W}$$

$$\eta = 91\% \text{ (Efficiency vs. Load Graph)}$$

$$P_{\text{dissipation}} = \frac{50}{0.91} - 50 = 4.95\text{W}$$

without Heat-sink

$$R_{th} = \frac{T_{\text{casemax}} - T_{\text{amb}}}{P_{\text{dissipation}}} \rightarrow 6.7^{\circ}\text{C/W} = \frac{105 - T_{\text{amb}}}{4.95\text{W}}$$

$$T_{\text{amb}} = 72^{\circ}\text{C}$$

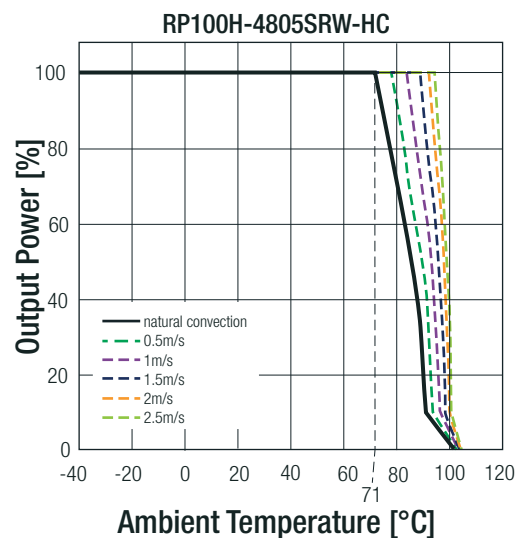
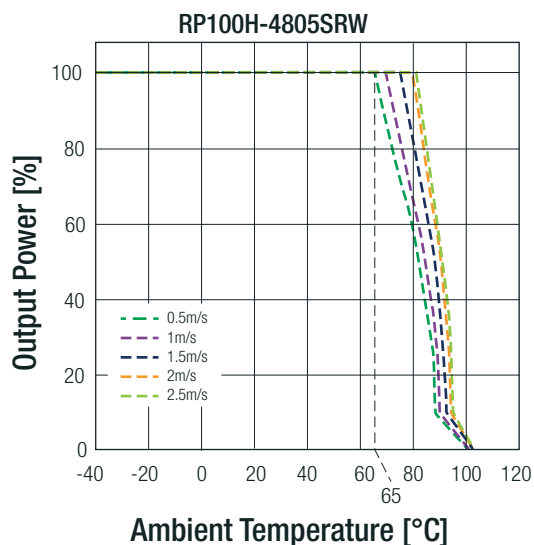
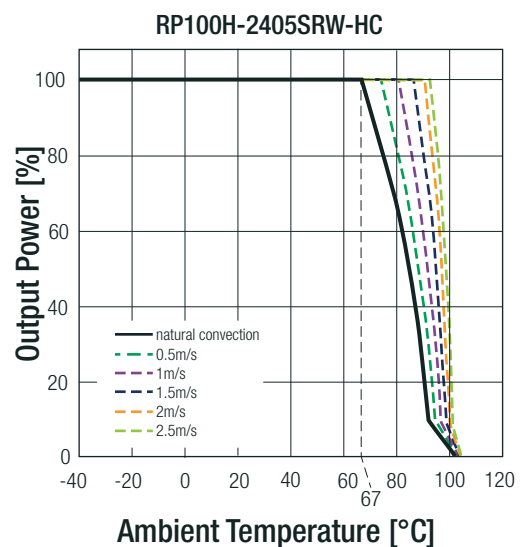
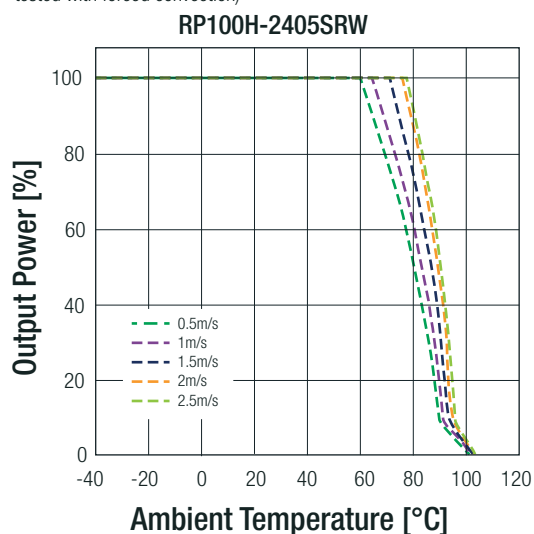
with Heat-sink

$$R_{thHC} = \frac{T_{\text{casemax}} - T_{\text{amb}}}{P_{\text{dissipation}}} \rightarrow 4.7^{\circ}\text{C/W} = \frac{105 - T_{\text{amb}}}{4.95\text{W}}$$

$$T_{\text{ambHC}} = 82^{\circ}\text{C}$$

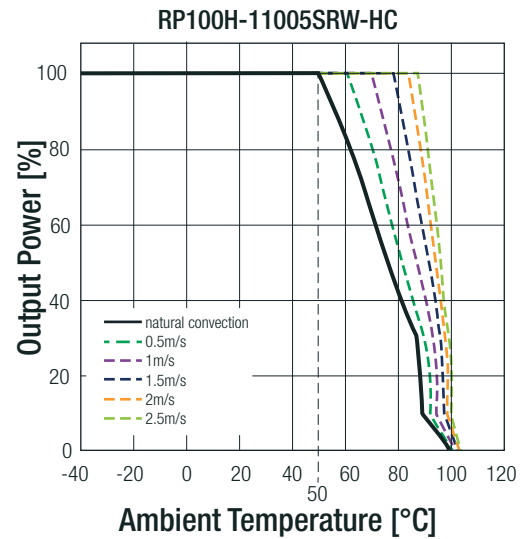
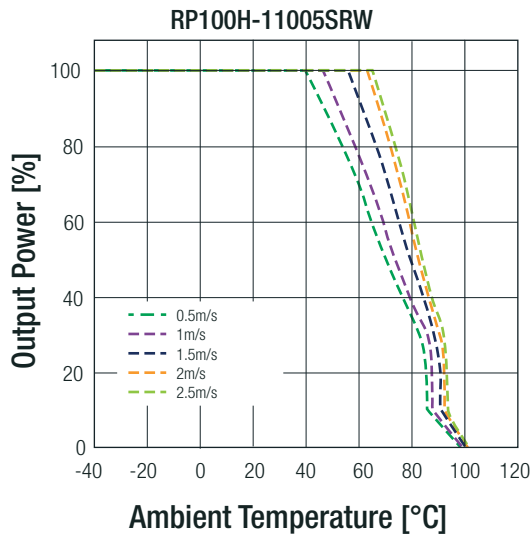
Derating Graph⁽⁶⁾

(@ Chamber - tested with forced convection)



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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)



Notes:

Note6: Derating graphs are valid only for the shown part numbers. If you need detailed derating-information about a part-number not shown here please contact our technical support service at techsupportAT@recom-power.com

SAFETY AND CERTIFICATIONS

Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	E196683	UL60950-1, 2nd Edition, 2014 CSA C22.2 No. 60950-1-07, 2nd Edition, 2014
Information Technology Equipment - General Requirements for Safety	TW1608033-001, TW1608036-001, TW1608037-001, TW1608079-001	IEC60950-1, 2nd Edition, 2005 EN60950-1, 2006
Railway Applications - Electrical Equipment used on rolling stock	16A081501E-C	EN50155, 2007
EAC	RU-AT.49.09571	TP TC 004/2011
RoHS2+		RoHS 2011/65/EU

EMI Compliance	Condition	Standard / Criterion
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	with external components	EN55032, Class A and Class B
Industrial, scientific and medical equipment - Radio frequency disturbance characteristics - Limits and methods of measurement		EN55011, Class A and Class B
ESD Electrostatic discharge immunity test	Air ±8kV and Contact ±6kV 20 V/m ±2kV ±2kV 10 Vr.m.s 100A/m continuous; 1000A/m 1s	EN61000-4-2, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test		EN61000-4-3, Criteria A
Fast Transient and Burst Immunity ⁽⁷⁾		EN61000-4-4, Criteria A
Surge Immunity ⁽⁷⁾		EN61000-4-5, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields		EN61000-4-6, Criteria A
Power Magnetic Field Immunity		EN61000-4-8, Criteria A

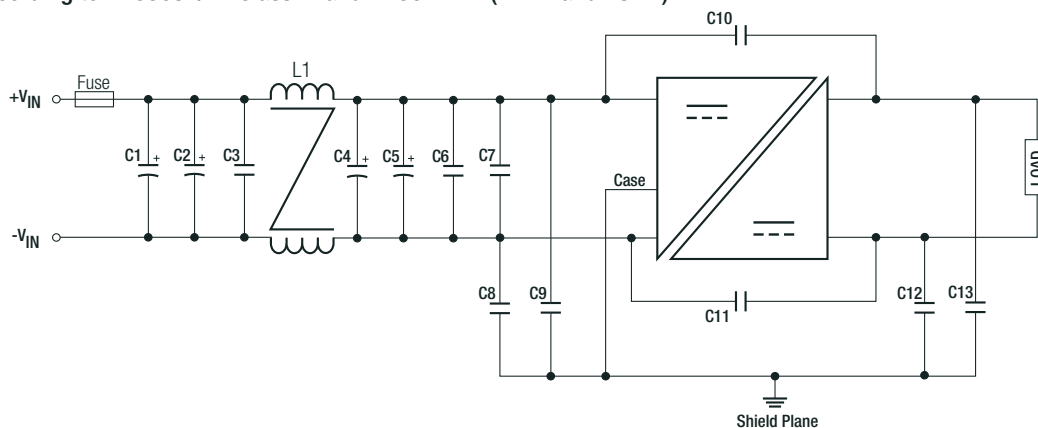
Notes:

Note7: An external input filter capacitor is required if the module has to meet EN61000-4-4 and EN61000-4-5.
 The **24Vin** and **48Vin** version recommend 2pcs of aluminium electrolytic capacitor to connect in parallel.
 Recom suggest: Nippon Chemi-con KY series, 220µF/100V.
 The **110Vin** version recommend 2pcs of aluminium electrolytic capacitor to connect in parallel.
 Recom suggest: Nippon Chemi-con KXJ series, 150µF/200V

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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

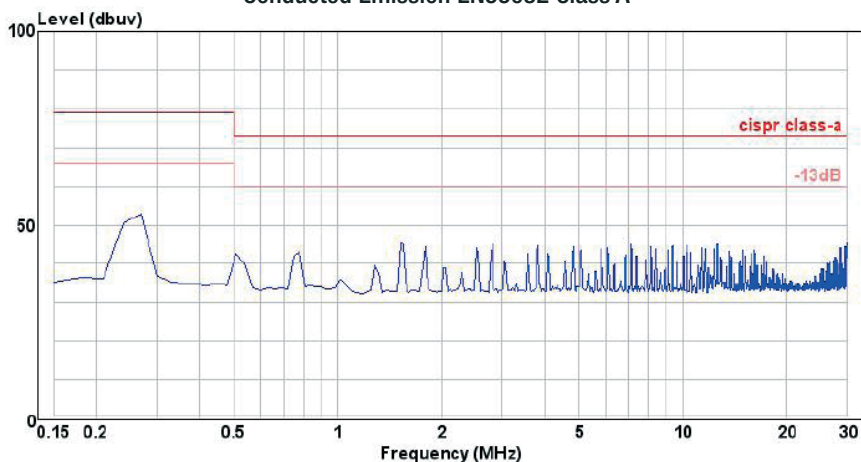
EMI Filtering according to EN55032/11 Class A and EN50121-1 (24Vin and 48Vin)



MODEL	C1, C2, C4	C3, C6, C7	C8, C9, C10, C11, C13	C12	L1
RP100H-24xxSRW	470µF, 50V Al cap. (lie down) Chemi-con KY	4.7µF, 50V 1812 MLCC	1000pF, 3kV 1808 MLCC	3300pF, 3kV 1808 MLCC	156µH CMC
RP100H-48xxSRW	220µF, 100V Al cap. (lie down) Chemi-con KY	2.2µF, 100V 1812 MLCC	1000pF, 3kV 1808 MLCC	1000pF, 3kV 1808 MLCC	224µH CMC

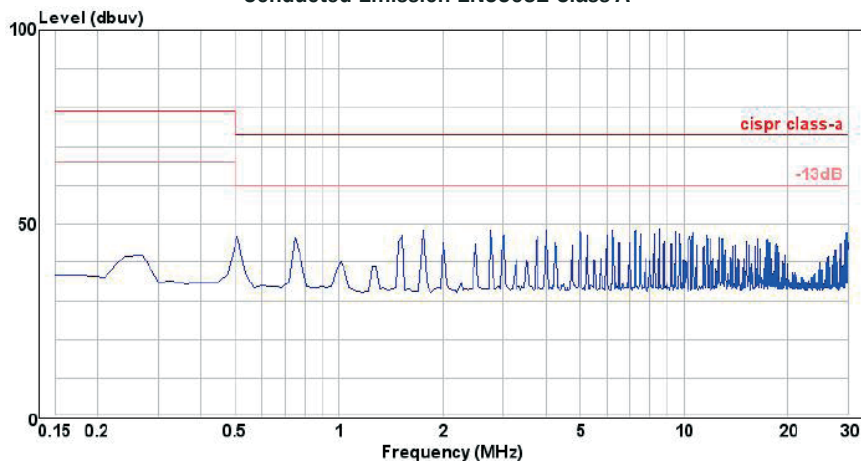
RP100H-2405SRW

Conducted Emission EN55032 Class A



RP100H-4805SRW

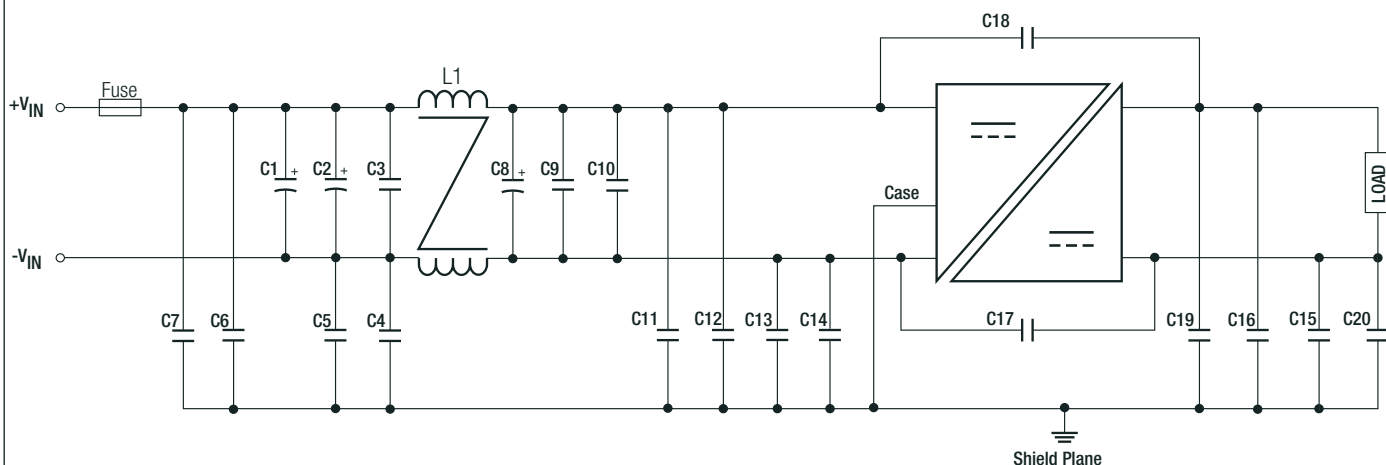
Conducted Emission EN55032 Class A



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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

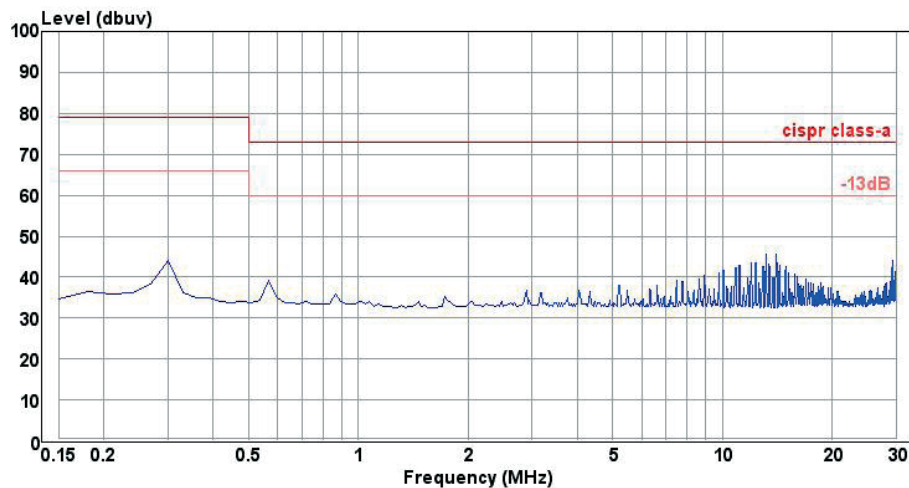
EMI Filtering according to EN55032/11 Class A and EN50121-1 (110V_{in})



MODEL	C1, C2, C8	C10	C6, C11, C12, C13, C14, C15, C16, C19, C20	C17, C18	L1
RP100H-110xxSRW	100μF, 250V Al cap. (lie down) Rubycon BXF	1μF, 250V 1812 MLCC	1000pF, 5kV 1808 MLCC	2200pF TDK CD series Y1	1219μH CMC

RP100H-11005SRW

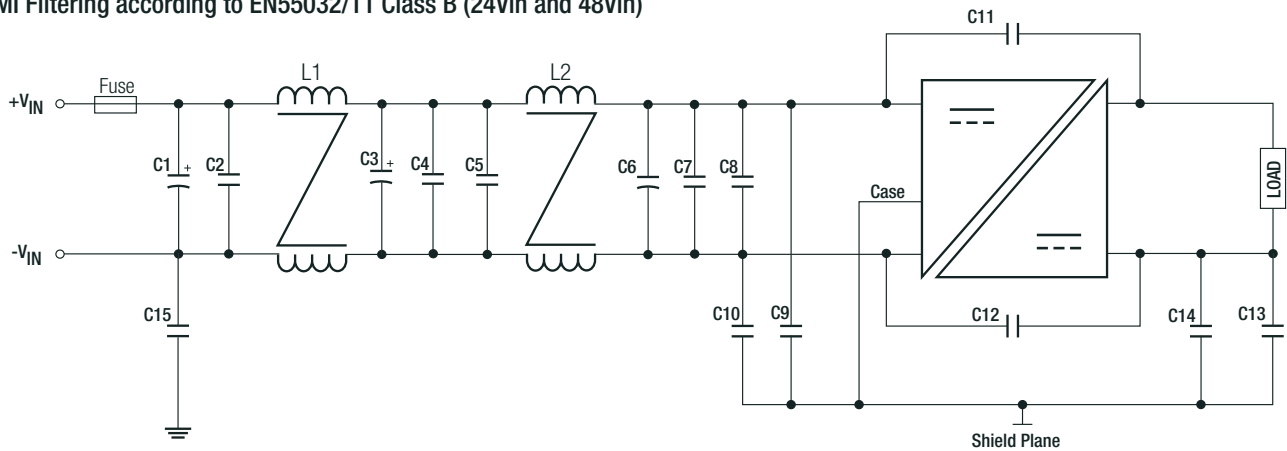
Conducted Emission EN55032 Class A



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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

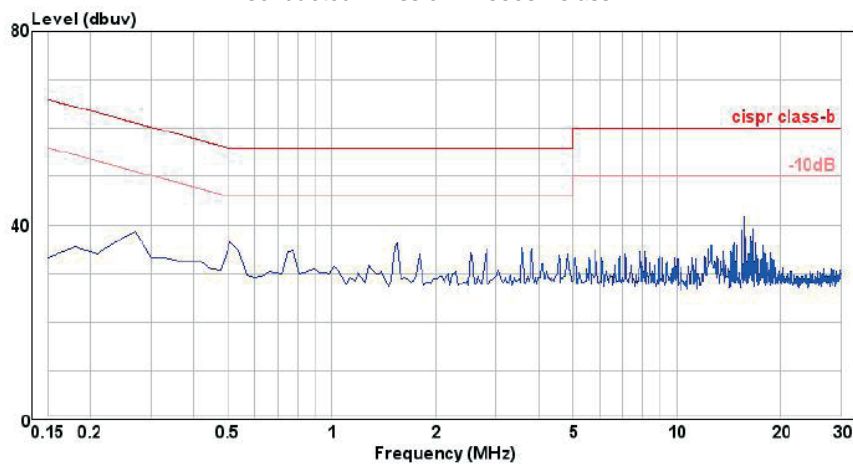
EMI Filtering according to EN55032/11 Class B (24Vin and 48Vin)



MODEL	C1, C3, C6	C2, C4, C5, C7, C8	C9, C10	C11	C12	C13, C14	C15	L1
RP100H-24xxSRW	470µF, 50V Al cap. (lie down) Chemi-con KY	4.7µF, 50V 1812 MLCC	10nF, 2kV 1812 MLCC	1000pF, 3kV 1808 MLCC	4700pF, 3kV 1812 MLCC	10nF, 2kV 1812 MLCC	N/A	156µH CMC
RP100H-48xxSRW	220µF, 100V Al cap. (lie down) Chemi-con KY	2.2µF, 100V 1812 MLCC	10nF, 100V 1812 MLCC	2200pF, 3kV 1808 MLCC	4700pF, 3kV 1812 MLCC	10nF, 2kV 1812 MLCC	1000pF, 3kV 1808 MLCC	224µH CMC

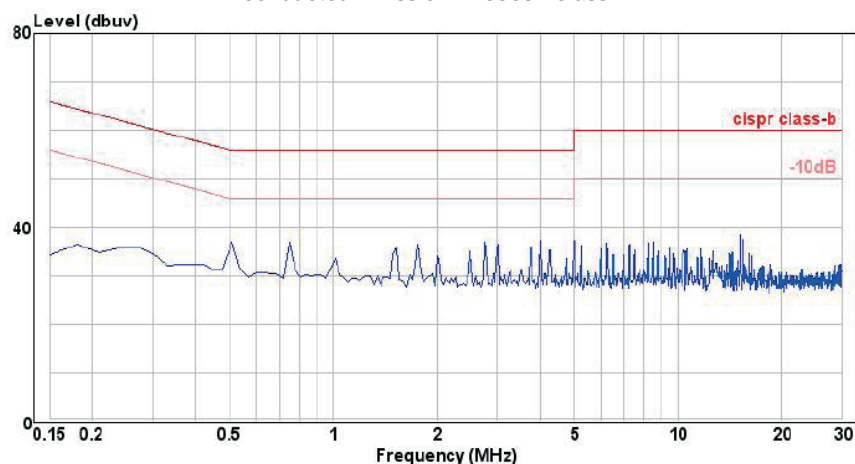
RP100H-2405SRW

Conducted Emission EN55032 Class B



RP100H-4805SRW

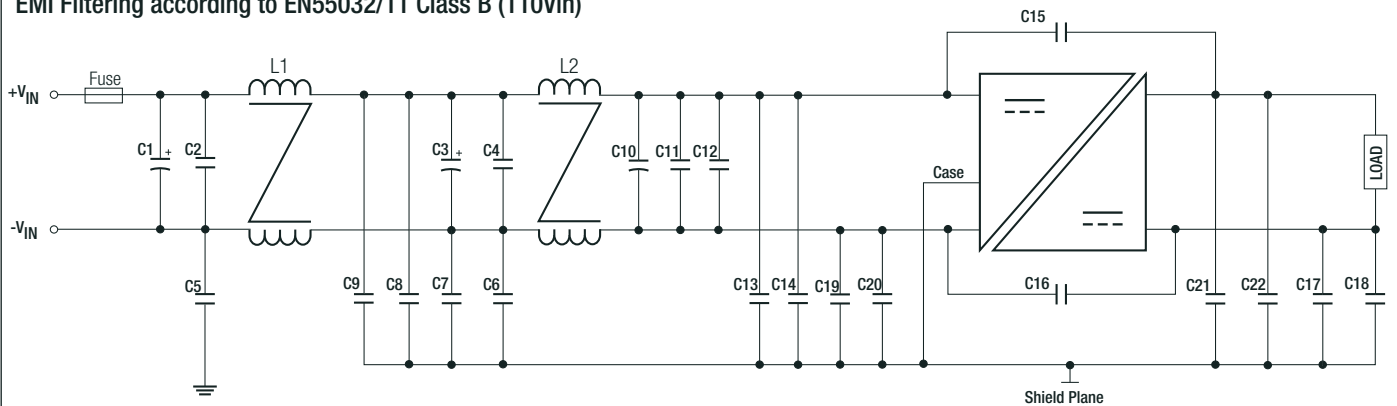
Conducted Emission EN55032 Class B



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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

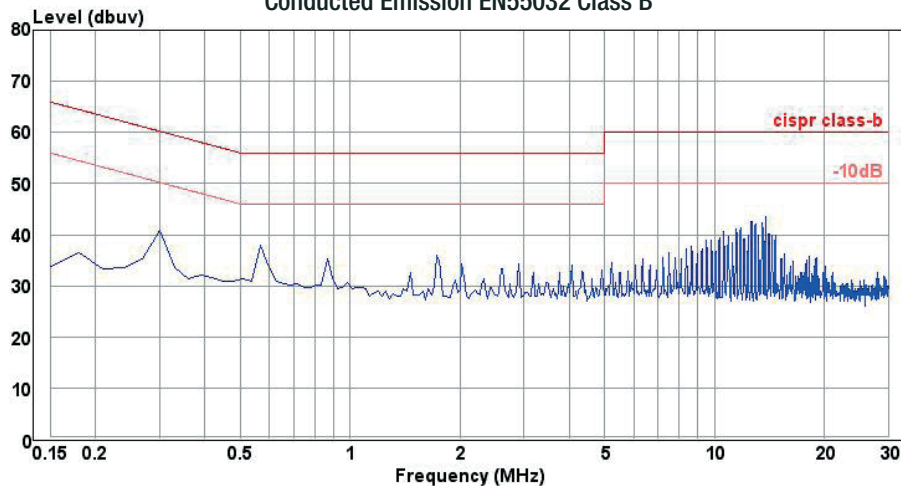
EMI Filtering according to EN55032/11 Class B (110Vin)



MODEL	C1, C3, C10	C2, C5, C23, C24	C4, C11, C12	C6, C7, C8, C9, C13, C14, C17, C18, C19, C20, C21, C22	C15, C16	L1	L2
RP100H-110xxSRW	150μF, 200V Al cap. (lie down) Chemi-con KY	N/A	1μF, 250V 1812 MLCC	1000pF, 5kV 1808 MLCC	2200pF TDK CD series Y1	1219μH CMC	521μH CMC
		C2, C4, C11, C12	C5, C6, C7, C19	C8, C9, C13, C14, C17, C18, C19, C20, C21, C22, C23, C24			
RP100H-11048SRW		1μF/250V 1812 MLCC	N/A	100pF/250VAC 1808 MLCC			

RP100H-11005SRW

Conducted Emission EN55032 Class B



DIMENSIONS and PHYSICAL CHARACTERISTICS

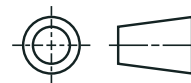
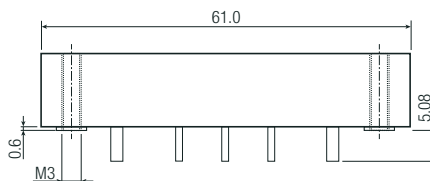
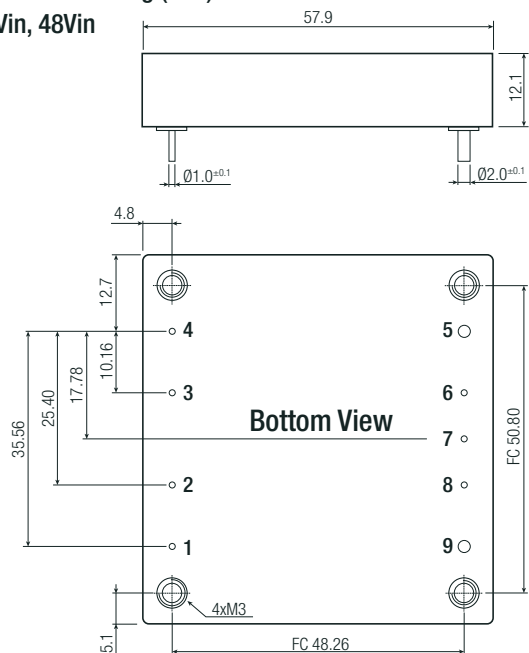
Parameter	Type		Value
Material	case	24Vin, 48Vin 110Vin	Metal Plastic
	baseplate	24Vin, 48Vin 110Vin	FR4 PCB Aluminium
	potting		Silicone (UL94 V-0)
Dimensions (LxWxH)	without Heat-sink		61.0 x 57.9 x 12.7mm
	with Heat-sink		61.0 x 57.9 x 24.13mm
Weight	without Heat-sink		105g
	with Heat-sink		157g

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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

Dimension Drawing (mm)

24Vin, 48Vin

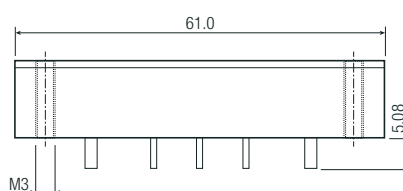
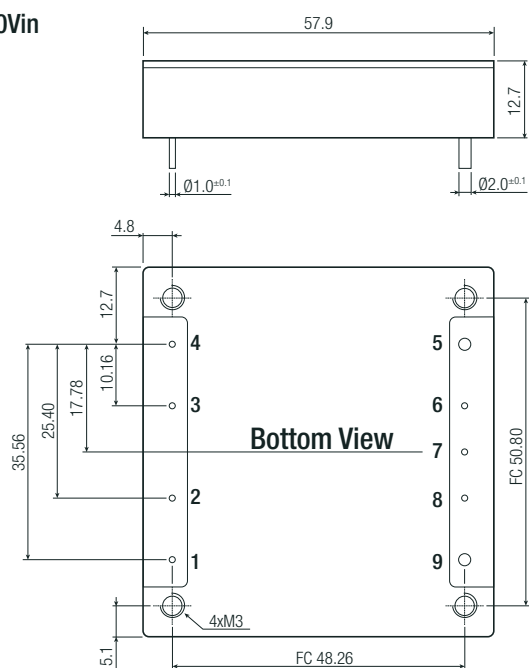


Pin Connections

Pin #	Single
1	+Vin
2	CTRL
3	Case
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

FC= Fixing Centers for Heat-sink
Pin Pitch Tolerance $\pm 0.25\text{mm}$
Pin Dimension Tolerance $\pm 0.1\text{mm}$
XX.X $\pm 0.5\text{mm}$
XX.XX $\pm 0.25\text{mm}$

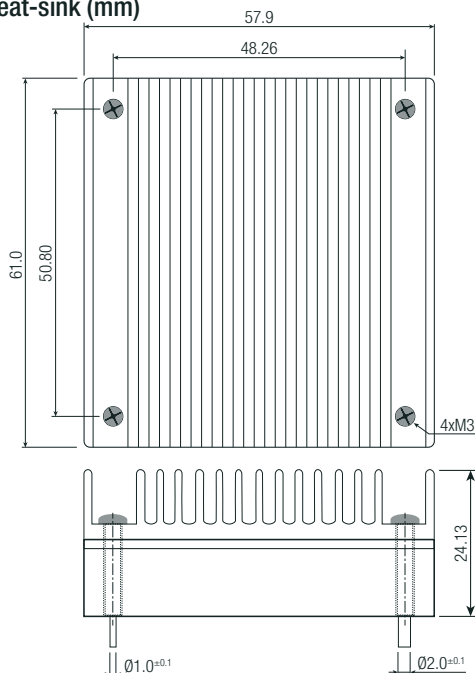
110Vin



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Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

Dimension Drawing Heat-sink (mm)



Notes:

Note8: Max. tightening torque for Heat Sink: 0.34Nm

PACKAGING INFORMATION

Parameter	Type		Value
Packaging Dimension	tray	without Heat-sink	157.0 x 88.0 x 23.0mm
		with Heat-sink	157.0 x 88.0 x 35.0mm
Packaging Quantity			2pcs.
Storage Temperature Range			-55°C to +125°C
Storage Humidity			5% - 95% RH

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