Features

Regulated Converter

- 4:1 wide input range
- 3kVAC reinforced insulation for 110Vin
  2.25kVDC Basic insulation for 24Vin & 48Vin
- Efficiency up to 91%
- No minimum load required
- UL60950-1, EN50155 & IEC/EN60950-1 certified

RECOM
DC/DC Converter

RP75H-RW

75 Watt Half Brick Single Output

3 YEAR warranty

Description

The half-brick RP75H 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 baseplates 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 RP75H-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]
RP75H-2405SRW	9-36	5	15000	3551	75	88	30000
RP75H-2412SRW	9-36	12	6300	3579	75	88	5250
RP75H-2415SRW	9-36	15	5000	3551	75	88	3330
RP75H-2424SRW	9-36	24	3200	3678	76	87	1330
RP75H-2448SRW	9-36	48	1600	3678	77	87	330
RP75H-4805SRW	18-75	5	15000	1736	75	90	30000
RP75H-4812SRW	18-75	12	6300	1750	75	90	5250
RP75H-4815SRW	18-75	15	5000	1755	75	89	3330
RP75H-4824SRW	18-75	24	3200	1818	76	88	1330
RP75H-4848SRW	18-75	48	1600	1839	77	87	330
RP75H-11005SRW	43-160	5	15000	749	75	91	30000
RP75H-11012SRW	43-160	12	6300	755	75	91	5250
RP75H-11015SRW	43-160	15	5000	749	75	91	3330
RP75H-11024SRW	43-160	24	3200	775	76	90	1330
RP75H-11048SRW	43-160	48	1600	775	77	90	330

Notes:

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

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

Model Numbering

RP75H-__ __SRW/__ __

- Input Voltage
- Output Voltage
- Single
- Package[3]
- CTRL Logic[2]

Ordering Examples

RP75H-2405SRW/N = 24V Input, 5V Output, Single, Neg. CTRL function
RP75H-11012SRW/P = 110V Input, 12V Output, Single, Pos. CTRL function
RP75H-11012SRW/P-HC = 110V Input, 12V Output, Single, Pos. CTRL function, with premounted Heat-sink

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)
Note3: add suffix "-HC" for premounted Heat-sink
(compatible with all other suffixes)

SURGE PROTECTOR available

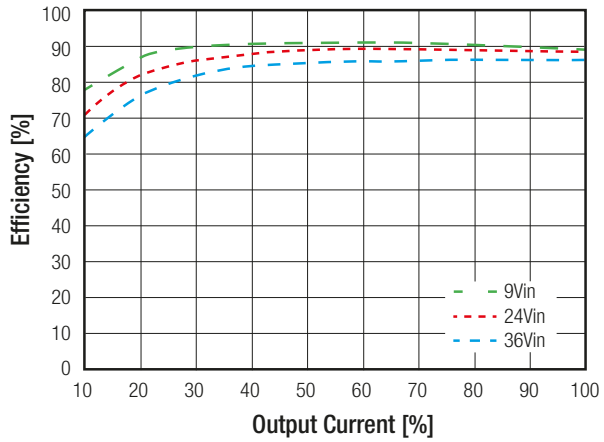
https://www.recom-power.com/pdf/Powerline_DC-DC/RSPxxx-168.pdf

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

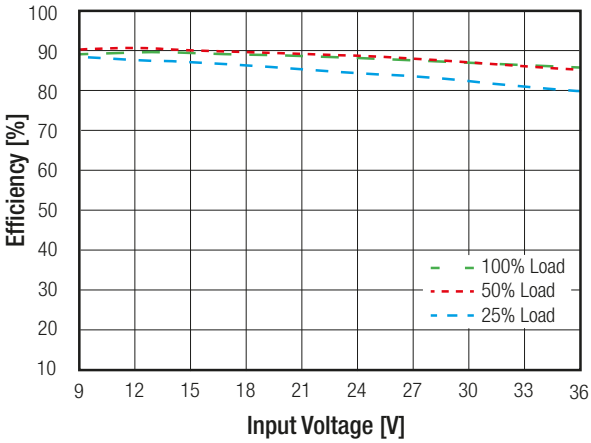
BASIC CHARACTERISTICS					
Parameter	**Condition**		**Min.**	**Typ.**	**Max.**
Internal Input Filter					Pi-Type
Input Voltage Range	nom Vin = 24V nom Vin = 48V nom Vin = 110V		9VDC 18VDC 43VDC	24VDC 48VDC 110VDC	36VDC 75VDC 160VDC
Input Surge Voltage	Vin = 24V, 1s max. Vin = 48V, 1s max. Vin = 110V, 1s max.				50VDC 100VDC 185VDC
Quiescent Current	Vin = 24V Vin = 48V Vin = 110V		85mA 50mA	 10mA	185mA 90mA
Start-up time	Power up	Vin = 110V Vin = 24V, Vin = 48V		60ms 25ms	
	Remote ON/OFF	Vin = 110V Vin = 24V, Vin = 48V		60ms 25ms	
Internal Operating Frequency			270kHz	300kHz	330kHz
Minimum Load			0%		
Ripple and Noise	measured by 20MHz BW with a 4.7µF/50V X7R MLCC with a 4.7µF/50V X7R MLCC 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	 100mVp-p 125mVp-p 250mVp-p 350mVp-p
Under Voltage Lockout (UVLO)	Vin = 24V	DC-DC ON DC-DC OFF		 7.5VDC	9VDC
	Vin = 48V	DC-DC ON DC-DC OFF		 16VDC	18VDC
	Vin = 110V	DC-DC ON DC-DC OFF		 36VDC	43VDC
ON/OFF Control	Positive Logic	DC-DC ON DC-DC OFF			Open or 3.0V < Vr < 12V Short or 0V < Vr < 1.2V
	Negative Logic	DC-DC ON DC-DC OFF			Short or 0V < Vr < 1.2V Open or 3.0V < Vr < 12V
Input Current of CTRL pin			-0.5mA		1mA
Standby Current				3mA	
Output Trim			-20%		+10%
Remote Sense	% of set Vout				10%

RP75H-2405SRW

Efficiency vs. Output Current



Efficiency vs. Input Voltage

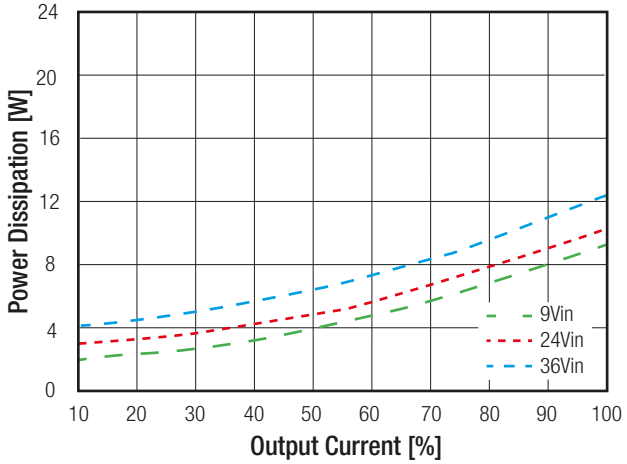


continued on next page

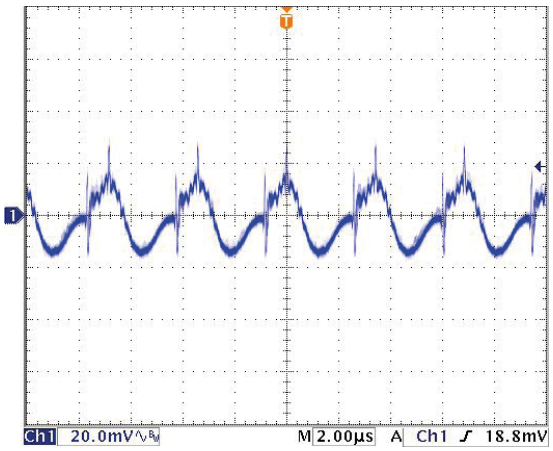
Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP75H-2405SRW

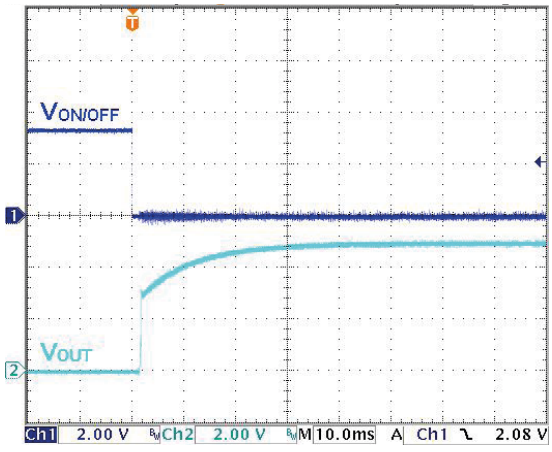
Power Dissipation vs. Output Current



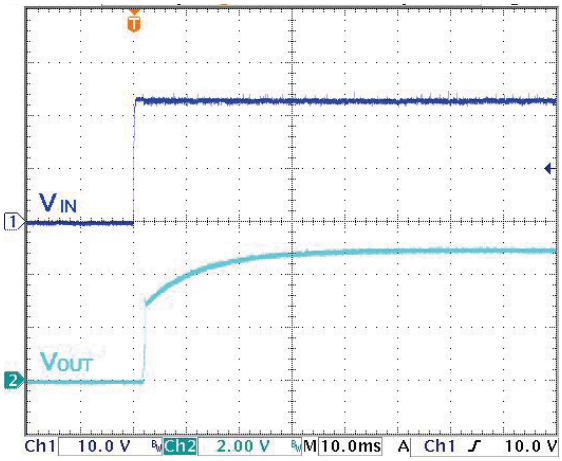
Typical Output Ripple and Noise/full load



ON/OFF Control Start-up Rise Characteristic

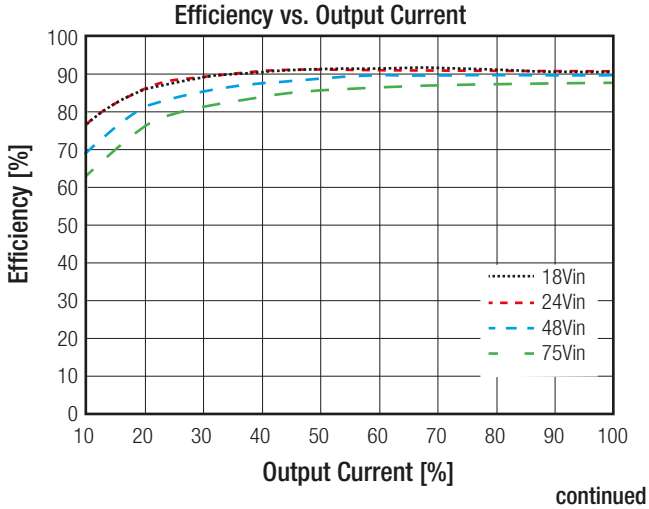


Power up Start-up Characteristic

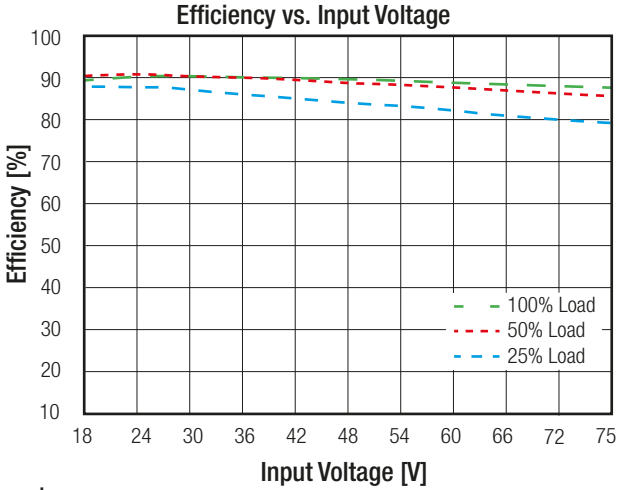


RP75H-4805SRW

Efficiency vs. Output Current



Efficiency vs. Input Voltage

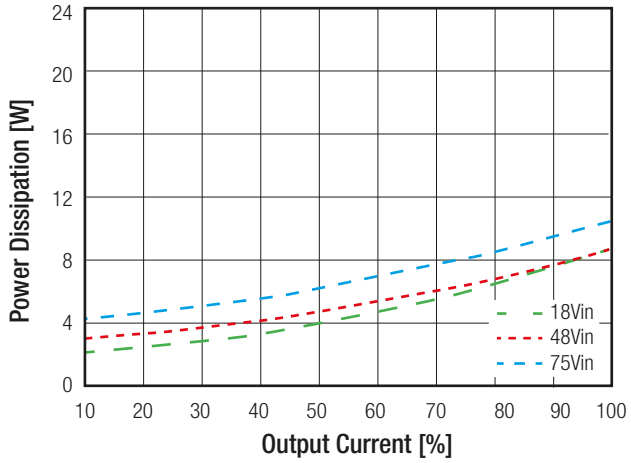


continued on next page

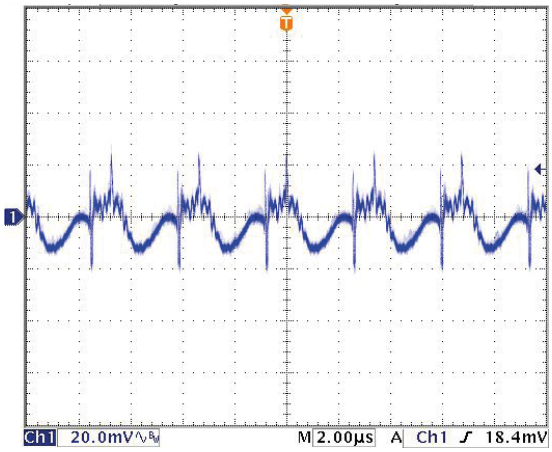
Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP75H-4805SRW

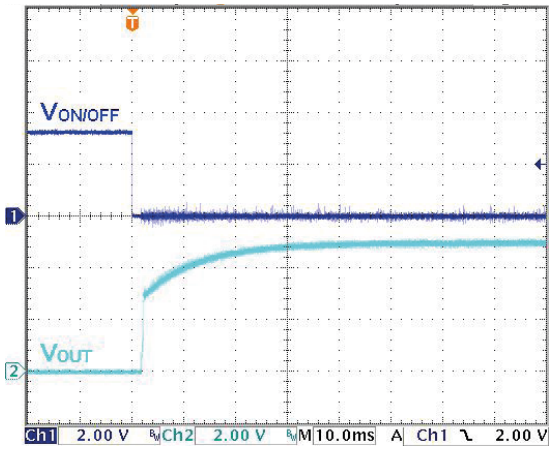
Power Dissipation vs. Output Current



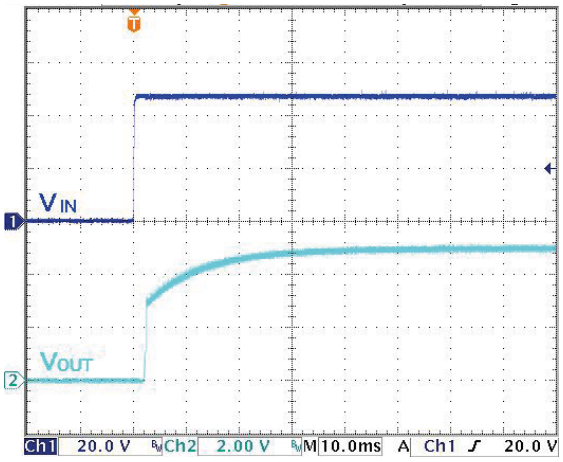
Typical Output Ripple and Noise/full load



ON/OFF Control Start-up Rise Characteristic

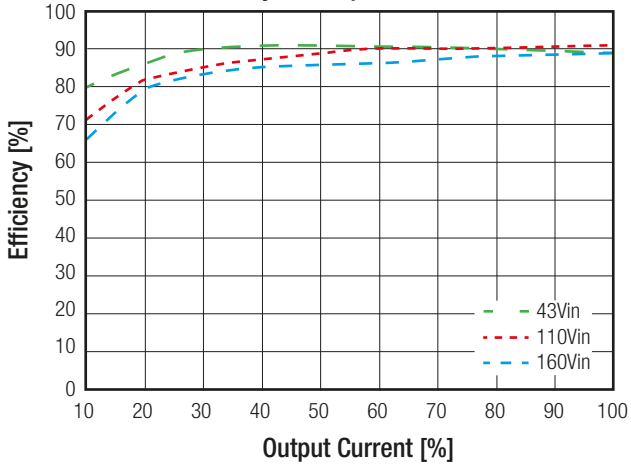


Power up Start-up Characteristic

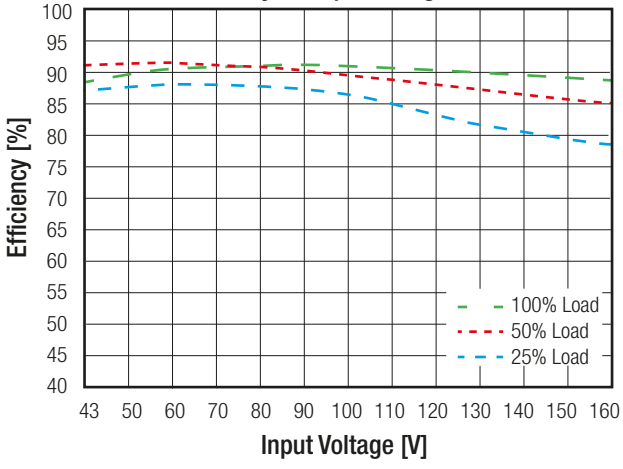


RP75H-11005SRW

Efficiency vs. Output Current



Efficiency vs. Input Voltage

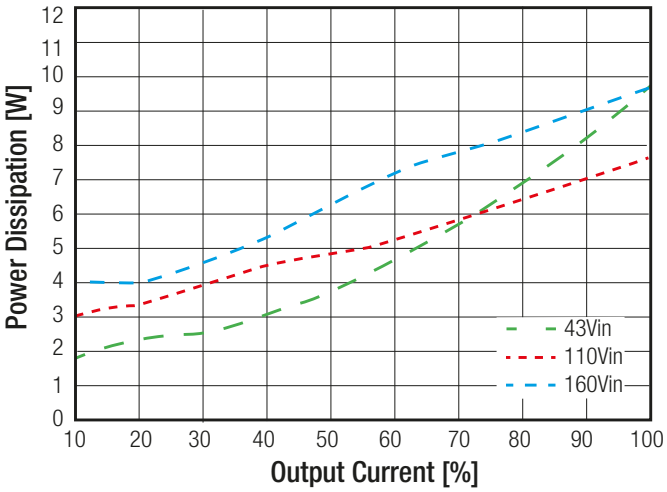


continued on next page

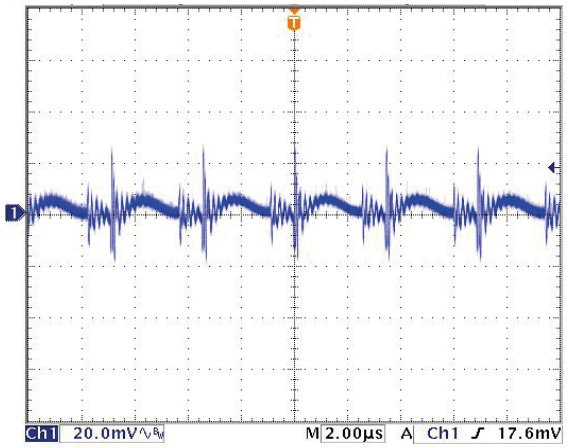
Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP75H-11005SRW

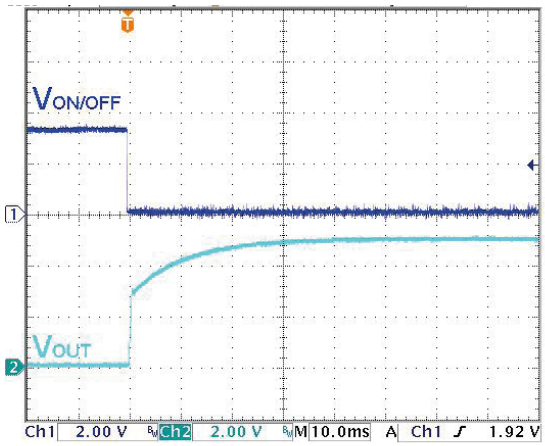
Power Dissipation vs. Output Current



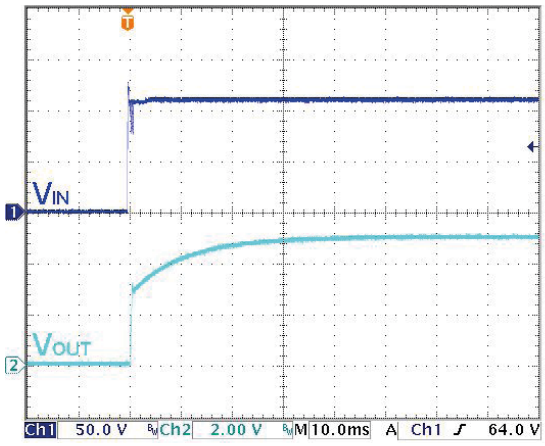
Typical Output Ripple and Noise/full load



ON/OFF Control Start-up Rise Characteristic



Power up Start-up Characteristic

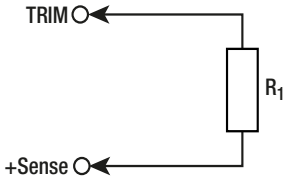


OUTPUT TRIM

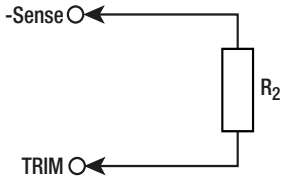
Output Voltage Trimming

RP75H-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 UP



TRIM DOWN



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

OUTPUT TRIM

Trim Calculation

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

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

Vout = Output Voltage
ΔVout = Output Voltage Trim in %
R1 = trim up resistor
R2 = trim down resistor

Practical Example:

Trim Up:

Vout = 5V, ΔVout = 10% (5.5V)

$$R_1 = \left[\frac{100*Vout+\Delta Vout * Vout)}{1.225*\Delta Vout} - \frac{(100+2\Delta Vout)}{\Delta Vout}\right] k\Omega = \left[\frac{100*5 +10*5}{1.225*10} - \frac{100+2*10}{10}\right] = 44.89 - 12 = 33.2k\Omega$$

Trim down:

Vout = 5V, ΔVout = -10% (4.5V)

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

RP75H-xx05SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
Vout =	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

RP75H-xx12SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
Vout =	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

RP75H-xx15SRW

Trim up	1	2	3	4	5	6	7	8	9	10	%
Vout =	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

RP75H-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_1 =	1870	953	634	487	392	324	280	249	226	205	KOhms

RP75H-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_1 =	3830	1960	1300	1000	806	681	576	511	464	422	KOhms

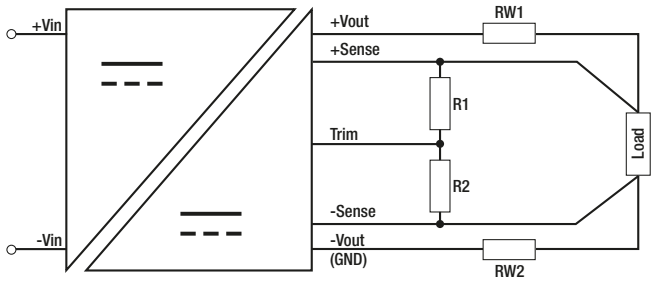
Trim Down all Vout's

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

continued on next page

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

Remote Sense



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

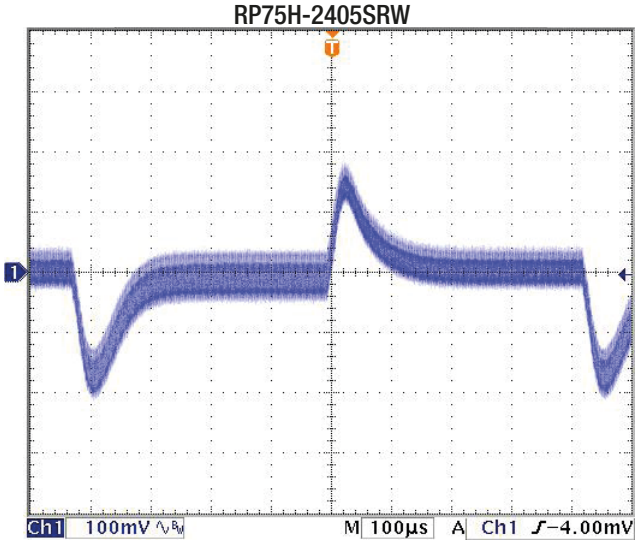
R_{W1} ... wire losses +
R_{W2} ... wire losses -
R_1 ... trim up resistor
R_2 ... trim down resistor

REGULATIONS

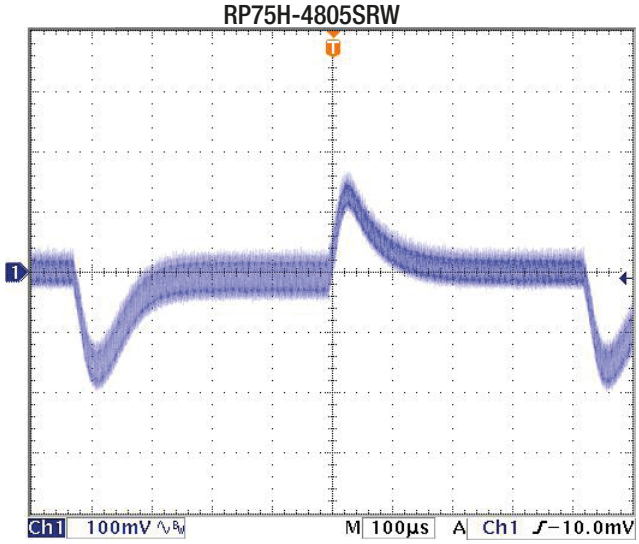
Parameter	Condition	Value
Output Accuracy		±1.0%
Line Regulation	low line to high line at full load	±0.1%
Load Regulation	0% to 100% load	0.1%
Transient Response	25% load step change	200µs typ.; 250µs max.

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

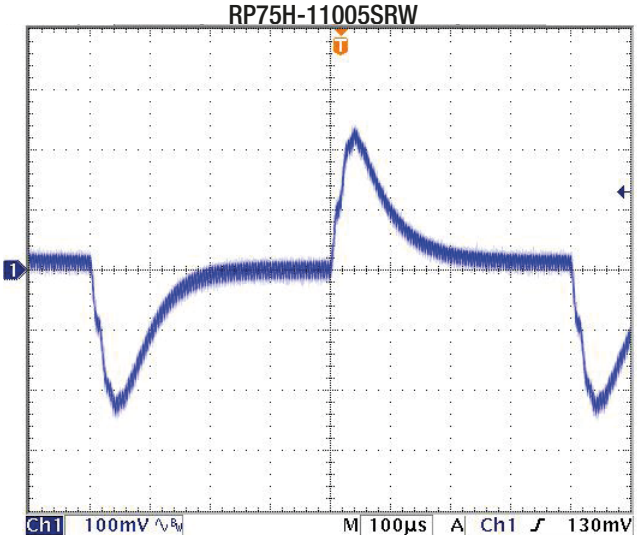
RP75H-2405SRW



RP75H-4805SRW



RP75H-11005SRW



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

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)			+115°C
Isolation Voltage	110Vin	I/P to O/P I/P or O/P to Baseplate	3kVAC/1minute 1.5kVAC/1minute
	24Vin, 48Vin	I/P to O/P I/P or O/P to Baseplate	2.25kVDC/1minute 1.6kVDC/1minute
Isolation Resistance	500 VDC		1GΩ min.
Isolation Capacitance			2500pF max.
Isolation Grade	24Vin, 48 Vin 110Vin		basic Insulation reinforced Insulation

Notes:

Note4: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T30A slow blow

ENVIRONMENTAL

Parameter	Condition		Value
Operating Case Temperature Range	Baseplate		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	24Vin, 48Vin 110Vin		PD1 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, G.B.	+25°C	336.2 x 10^3 hours

Thermal Calculation

$R_{thcase\text{-}ambient}$ = 6.7°C/W (vertical)
$R_{thcase\text{-}ambientHC}$ = 4.7°C/W (vertical)

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

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

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

Practical Example:

Take the RP75H-2405SRW with 9V input Voltage and 50% load. What is the maximum ambient operating temperature? Use converter vertical in application without airflow.

Eff_{min} = 90% @ V_{nom}

P_{OUT} = 75W

P_{OUTapp} = 75 x 0.5 = 37.5W

η = 92% (Efficiency vs. Load Graph)

$$P_{dissipation} = \frac{37.5}{0.92} - 37.5 = 3.26W$$

without Heat-sink

$$R_{th} = \frac{T_{casemax} - T_{amb}}{P_{dissipation}} \text{ --> } 6.7°C/W = \frac{105\text{-}T_{amb}}{3.26W}$$

T_{amb} = **83°C**

with Heat-sink

$$R_{thHC} = \frac{T_{casemax} - T_{amb}}{P_{dissipation}} \text{ --> } 4.7°C/W = \frac{105\text{-}T_{amb}}{3.26W}$$

T_{ambHC} = **89°C**

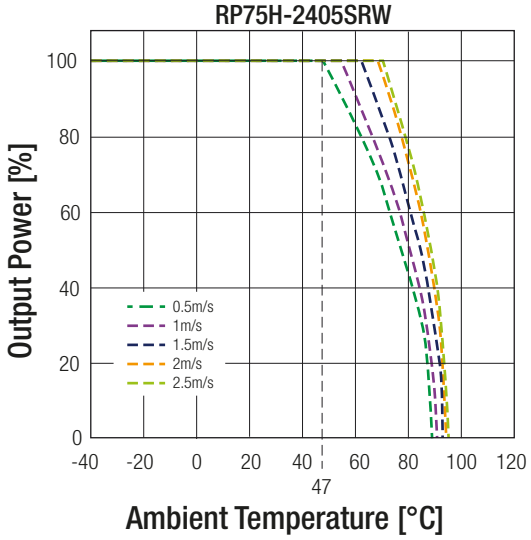
continued on next page

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

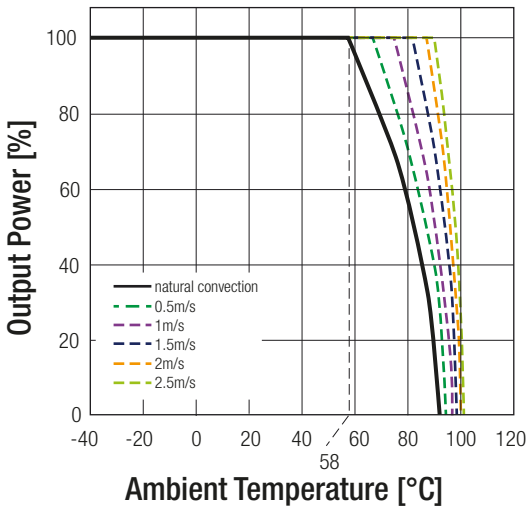
Derating Graph[5]

(@ Chamber and natural convection 0.1m/s)

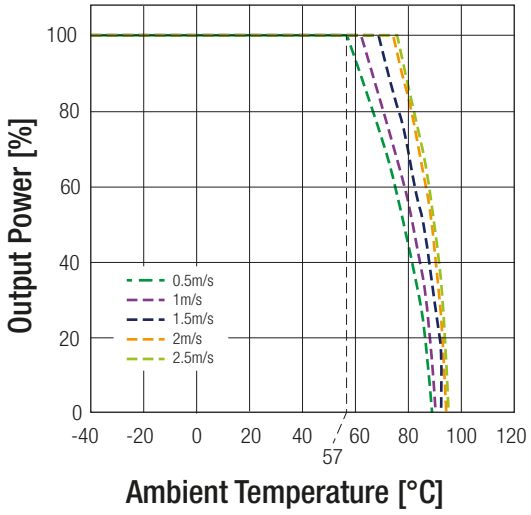
RP75H-2405SRW



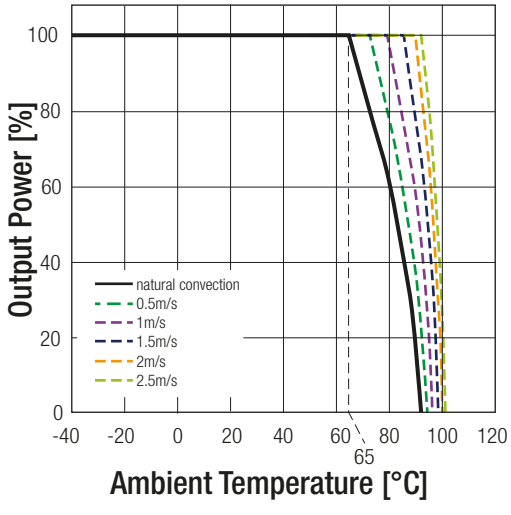
RP75H-2405SRW-HC



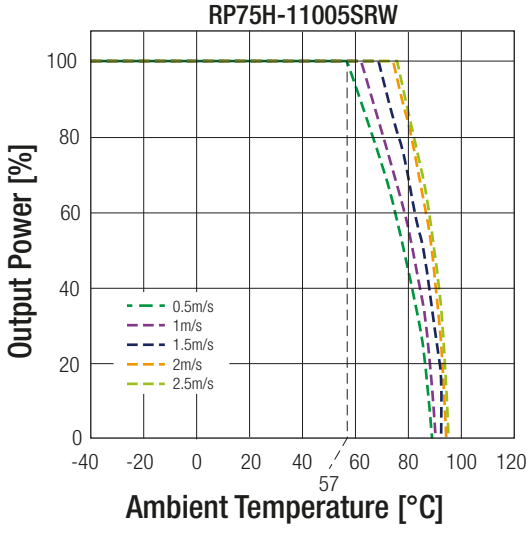
RP75H-4805SRW



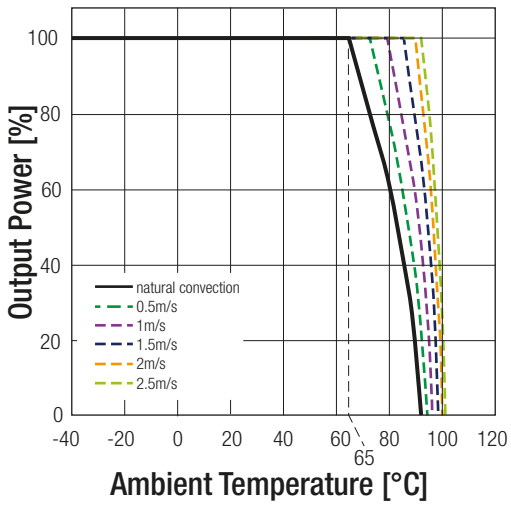
RP75H-4805SRW-HC



RP75H-11005SRW



RP75H-11005SRW-HC



Notes:

Note5: 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

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

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
IEC/EN Information Technology Equipment - General Requirments for Safety	TW1608034-001, TW1608035-001	IEC60950-1, 2nd Edition, 2005 EN60950-1, 2nd Edition, 2006
Railway Applications - Electrical Equipment used on rolling stock	16A081501E-C	EN50155, 2007
EAC	RU-AT.49.09571	TP TC 004/2011
RoHS 2+		RoHS 2011/65/EU

EMI Compliance	Condition	Standard / Criterion
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	110Vin with external components	EN55022, 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
Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	24Vin, 48Vin with external components	EN61204-3, Class B
ESD Electrostatic discharge immunity test	Air ±8kV and Contact ±6kV	EN61000-4-2, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	20V/m (110Vin), 10V/m (24Vin,48Vin)	EN61000-4-3, Criteria A
Fast Transient and Burst Immunity(6)	±2kV	EN61000-4-4, Criteria A
Surge Immunity(6)	EN55024 & EN50155 ±2kV (±1kV, 24Vin, 48Vin)	EN61000-4-5, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	10 Vr.m.s	EN61000-4-6, Criteria A

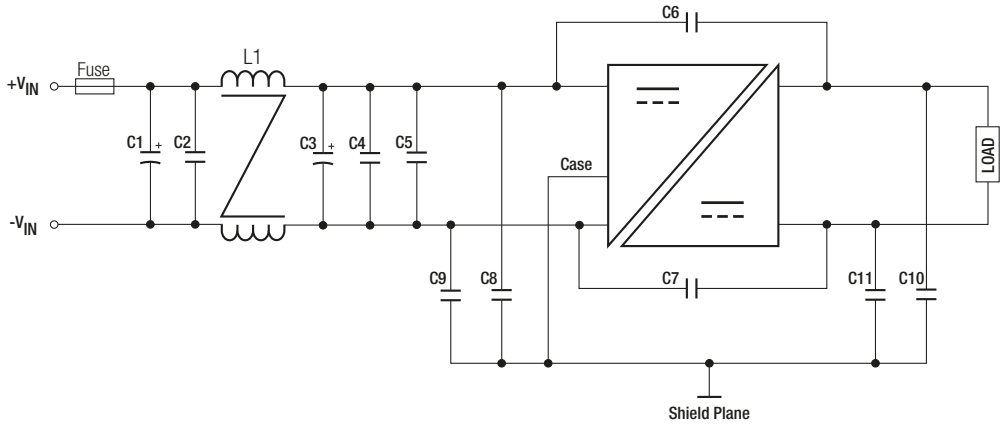
Notes:

Note6: 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 elecrolytic capacitor to connect in parallel.
Recom suggest: 220µF/100V.

The **110Vin** version recommend 2pcs of aluminium electrolytic capacitor to connect in parallel.
Recom suggest: 150µF/200V

EMI Filtering according to EN61204-3 Class A and EN50121-1 (24Vin and 48Vin)



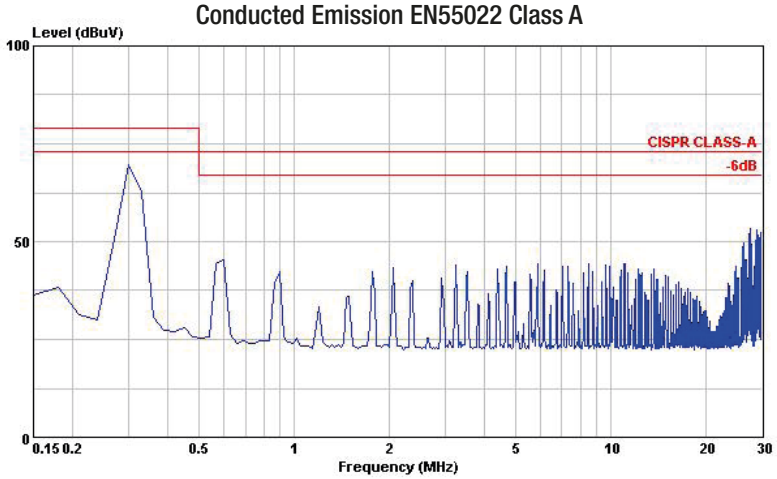
MODEL	C1, C3	C2, C4, C5	C6 to C11	L1
RP75H-24xxSRW	100µF, 50V Al Cap. Chemi-con KY Series	4.7µF, 50V 1812 MLCC	1000pF, 3kV 1808 MLCC	156µH CMC
RP75H-48xxSRW	100µF, 100V Al Cap. Chemi-con KY Series	2.2µF, 100V 1812 MLCC	1000pF, 3kV 1808 MLCC	620µH CMC

continued on next page

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

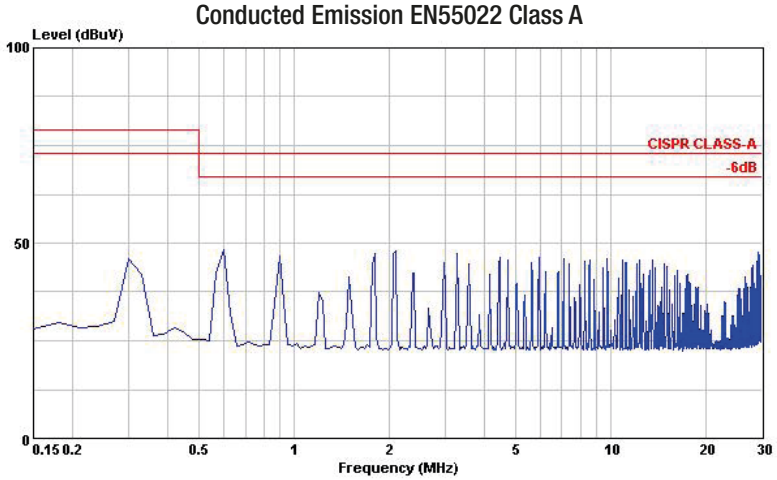
RP75H-2405SRW

Conducted Emission EN55022 Class A

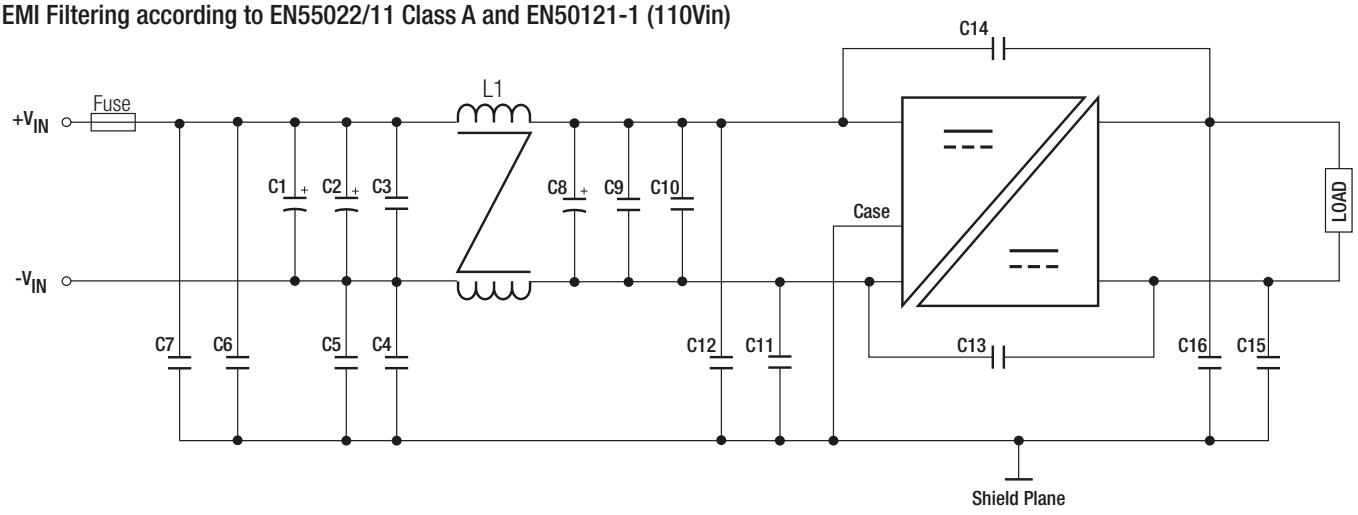


RP75H-4805SRW

Conducted Emission EN55022 Class A



EMI Filtering according to EN55022/11 Class A and EN50121-1 (110Vin)



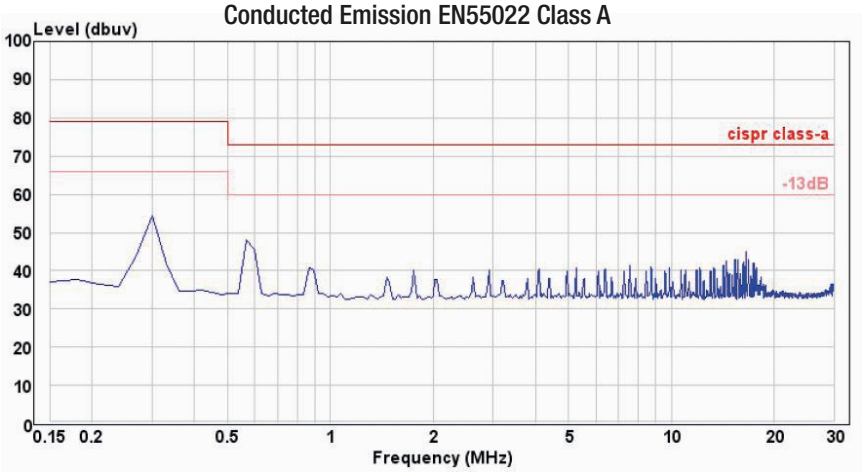
MODEL	C1, C8	C10	C13, C14	C5, C15, C16	L1
RP75H-110xxSRW	150µF, 200V Al Capacitor (lie down) Chemi-con KXJ	1µF, 250V 1812 MLCC	1000pF, 400VAC TDK CD Series	1000pF, 5kV 1808 MLCC	521µH CMC
C2, C3, C4, C6, C7, C9, C11, C12: N/A					

continued on next page

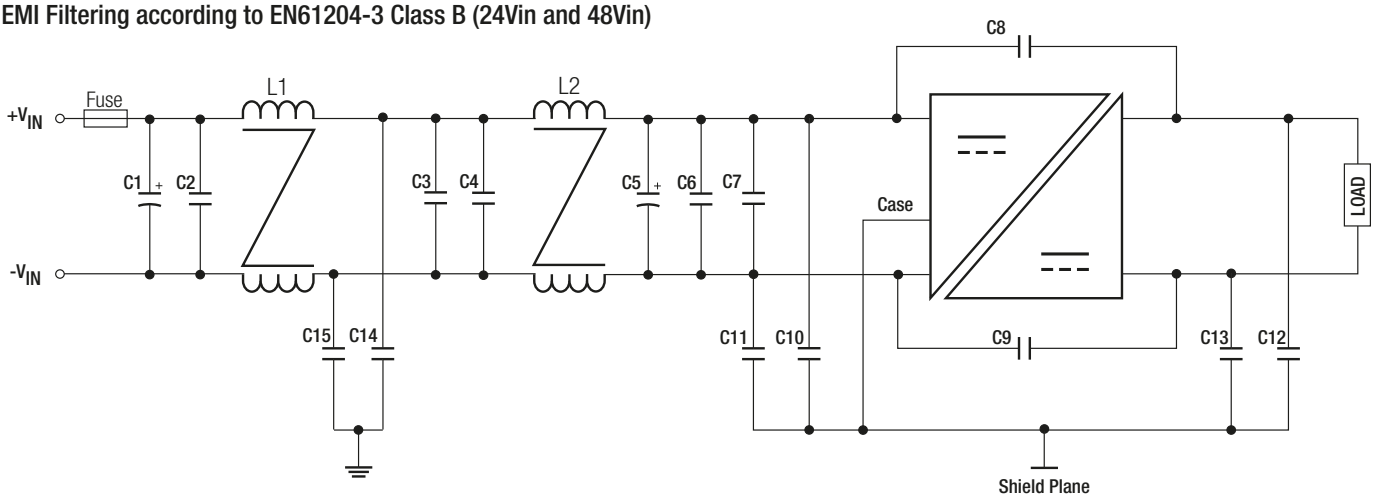
Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP75H-11005SRW

Conducted Emission EN55022 Class A



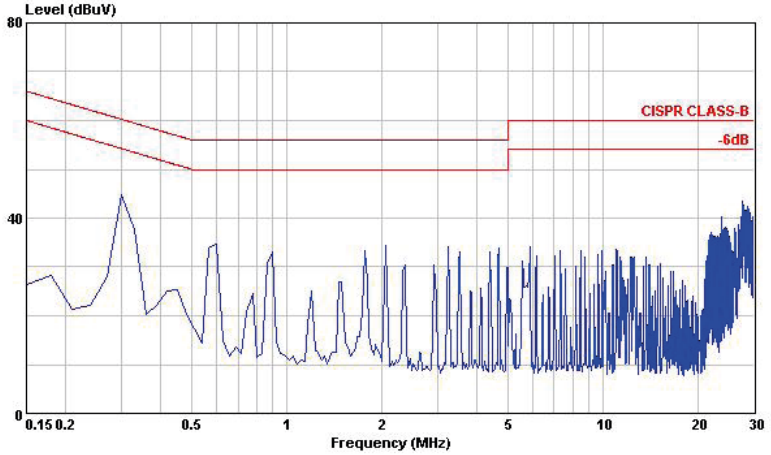
EMI Filtering according to EN61204-3 Class B (24Vin and 48Vin)



MODEL	C1, C5	C2, C3, C4, C6, C7	C8, C14, C15	C9	C10 to C13	L1	L2
RP75H-24xxSRW	100µF, 50V Al Cap. (lie down) Chemi-con KY	4.7µF, 50V 1812 MLCC	1000pF, 3kV 1808 MLCC	1000pF, 3kV 1808 MLCC	10nF, 2kV 1812 MLCC	305µH CMC	305µH CMC
RP75H-48xxSRW	100µF, 100V Al Cap. (lie down) Chemi-con KY	2.2µF, 100V 1812 MLCC	1000pF, 3kV 1808 MLCC	4700pF, 3kV 1812 MLCC	10nF, 2kV 1812 MLCC	1186µH CMC	156µH CMC

RP75H-2405SRW

Conducted Emission EN55022 Class B

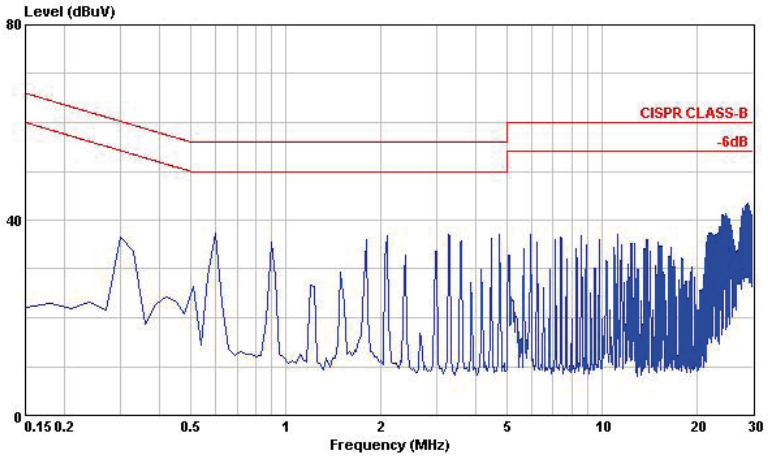


continued on next page

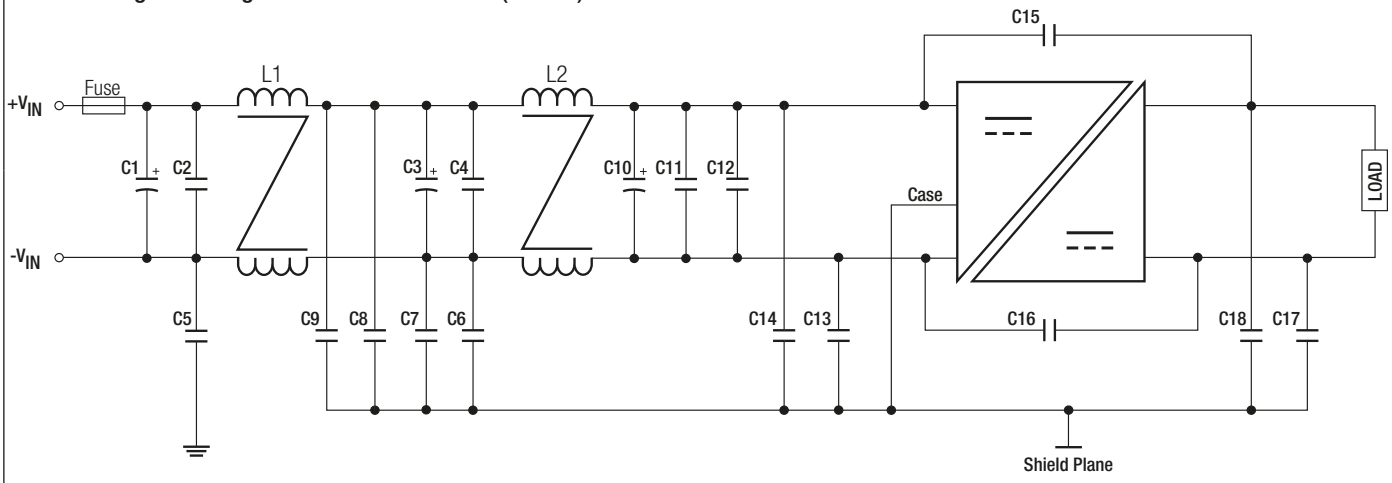
Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

RP75H-4805SRW

Conducted Emission EN55022 Class B



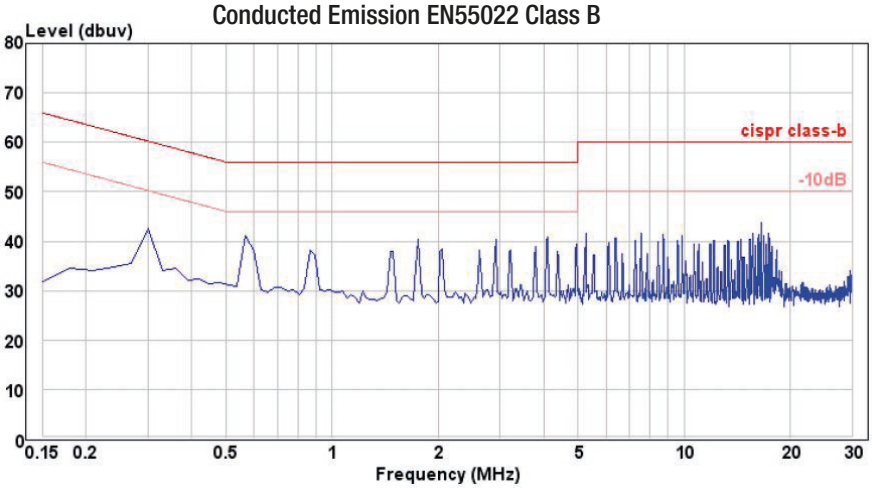
EMI Filtering according to EN55022/11 Class B (110Vin)



MODEL	C1, C3, C10	C11, C12	C13	C15, C16	C6, C7, C8, C9, C17, C18	L1	L2
RP75H-110xxSRW	150µF, 200V Al Cap. (lie down) Chemi-con KXJ	1µF, 250V 1812 MLCC	330pF, 5kV 1808 MLCC	1000pF, 400VAC TDK CD Series	1000pF, 5kV 1808MLCC	305µH CMC	806µH CMC
C2, C4, C5, C14: N/A							

RP75H-11005SRW

Conducted Emission EN55022 Class B

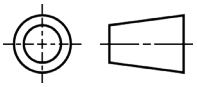


Specifications (measured @Ta = 25°C, resistive load, nominal Vin and rated Iout unless otherwise noted)

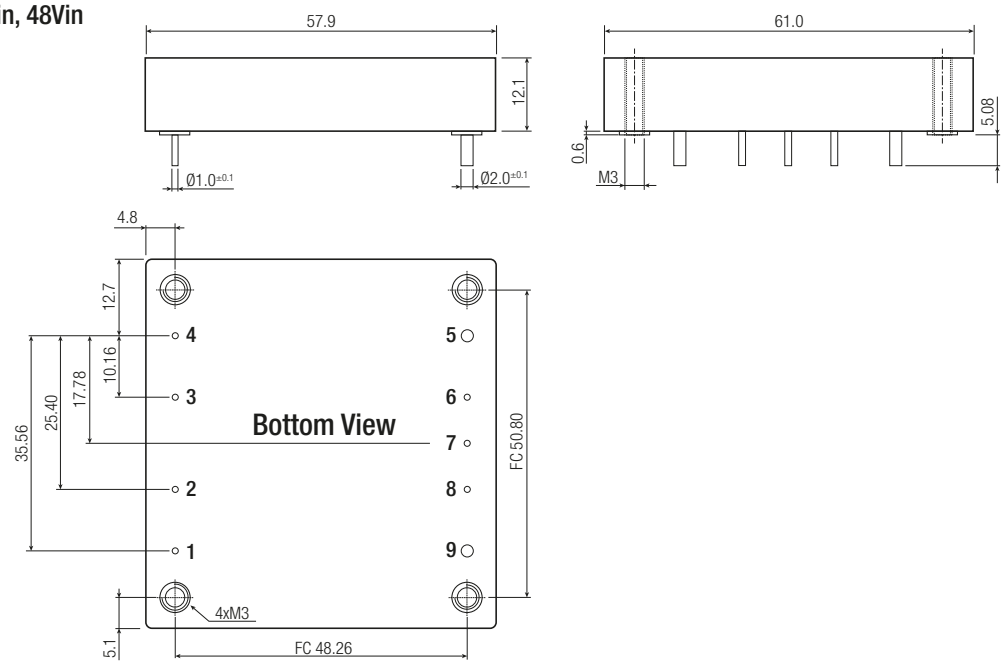
DIMENSIONS and PHYSICAL CHARACTERISTICS

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

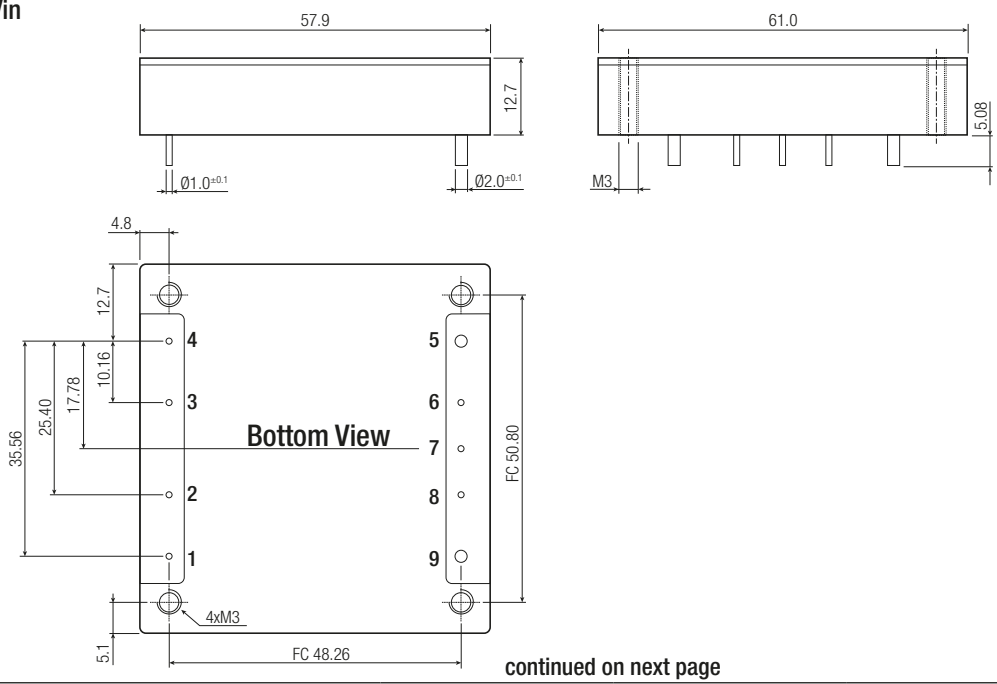
Dimension Drawing (mm)



24Vin, 48Vin



110Vin



Pin Connections

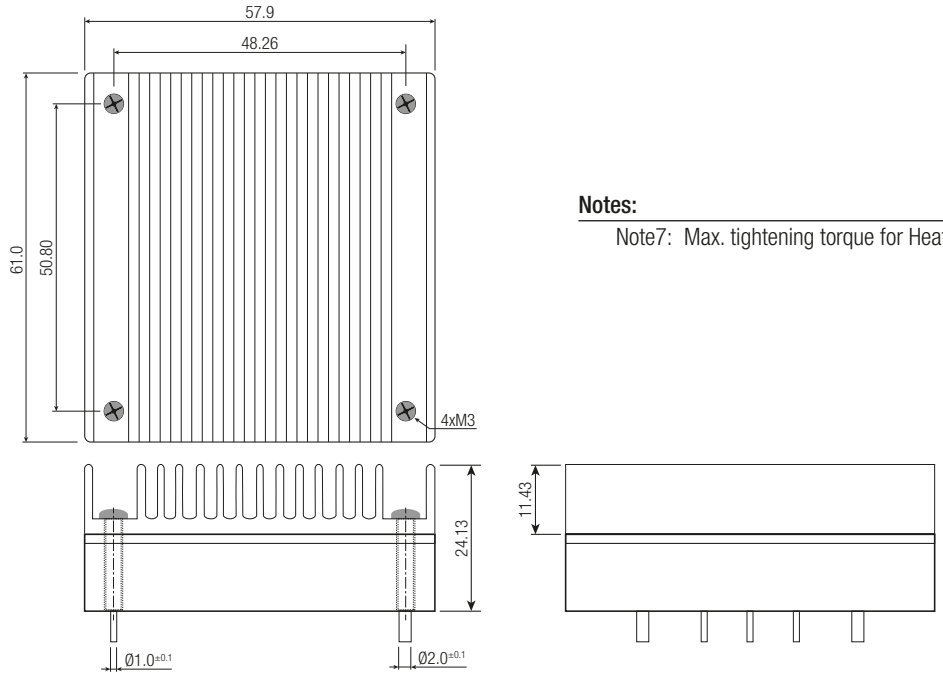
Pin #	Single
1	+Vin
2	CTRL
3	Case
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

FC= Fixing Centers for Heat-sink
Pin Pitch Tolerance ±0.25mm
Pin Dimension Tolerance ±0.1mm
XX.X ± 0.5mm
XX.XX ± 0.25mm

continued on next page

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

110Vin with Heat-sink



Notes:

Note7: 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 12.8mm
		with Heat-sink	157.0 x 88.0 x 24.8mm
Packaging Quantity			2pcs.
Storage Temperature Range			-55°C to +125°C
Storage Humidity			5% - 95% RH

The product information and specifications may be subject to changes even without prior written notice.The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

RECOM:

RP75H-2405SRW/N RP75H-2424SRW/N RP75H-2412SRW/N-HC RP75H-2405SRW/P RP75H-2412SRW/N RP75H-2448SRW/N RP75H-11024SRW/P RP75H-11048SRW/P RP75H-11012SRW/N-HC RP75H-11012SRW/N RP75H-11005SRW/P-HC RP75H-11012SRW/P-HC RP75H-4815SRW/P RP75H-2424SRW/P RP75H-4824SRW/P-HC RP75H-11015SRW/P-HC RP75H-2448SRW/N-HC RP75H-11024SRW/N-HC RP75H-4824SRW/P RP75H-4815SRW/P-HC RP75H-4848SRW/N RP75H-11012SRW/P RP75H-11005SRW/N-HC RP75H-4812SRW/N-HC RP75H-4805SRW/N-HC RP75H-4824SRW/N-HC RP75H-11048SRW/N-HC RP75H-11005SRW/P RP75H-11015SRW/N-HC RP75H-4848SRW/P-HC RP75H-4815SRW/N RP75H-2412SRW/P-HC RP75H-2405SRW/N-HC RP75H-4824SRW/N RP75H-11024SRW/N RP75H-11048SRW/P-HC RP75H-2415SRW/P RP75H-4812SRW/P RP75H-2415SRW/N-HC RP75H-4805SRW/N RP75H-4812SRW/N RP75H-4812SRW/P-HC RP75H-2405SRW/P-HC RP75H-2415SRW/P-HC RP75H-11048SRW/N RP75H-2448SRW/P-HC RP75H-4805SRW/P RP75H-11005SRW/N RP75H-4848SRW/N-HC RP75H-11024SRW/P-HC RP75H-2424SRW/P-HC RP75H-4848SRW/P RP75H-4805SRW/P-HC RP75H-11015SRW/N RP75H-11015SRW/P RP75H-2448SRW/P RP75H-2424SRW/N-HC RP75H-2412SRW/P RP75H-2415SRW/N RP75H-4815SRW/N-HC