

Features

- DC/DC Power Module
- 15W to 40W with 4:1 inputs, 60W with 2:1
- Screw Terminal Connections
- Class B EMC Filter built-in
- Input Fuse
- Reverse Polarity Protected
- Inrush Current Limiting (Soft Start)
- Output Trim Potentiometer
- Output LED Indicator
- DIN Rail Mounting or Panel Mount Options

Description

The Recom Power Module takes a standard 15W-60W converter and mounts it on a PCB with screw terminals, an EMC filter, input protection circuitry and a built-in heatsink to offer a complete power module that can be mounted on a bulkhead or on a standard DIN rail. The Power Module is primarily designed for transport applications such as a GPS vehicle tracking power supply or a radio communications power supply, but will also find many uses in industrial, communications or battery-powered applications.

How to use this datasheet:

1. Select the converter that suits your application from the converter series list below
 2. Decide on DIN Mount (RPMD) or bulkhead (RPM) version
- Ordering example: 40W, 18-75 VDC in, single 12V out, DIN Mount = RPMD40-4812SGW

Selection Guide Single and Dual Outputs - Panel Mount Version

Power Module Part Number (Bulkhead Version)	Input Range VDC	Output Power Watts	Internal Fuse (Replaceable)	Converter Series
RPM15-24xxS_DFW**	9.5-36	15	T4A	RP15-24xxS_DFW
RPM15-48xxS_DFW**	18-75	15	T4A	RP15-48xxS_DFW
RPM20-24xxS_DFW**	9.5-36	20	T4A	RP20-24xxS_DFW
RPM20-48xxS_DFW**	18-75	20	T4A	RP20-48xxS_DFW
RPM30-24xxS_DEW**	10-40	30	T6A	RP30-24xxS_DEW
RPM30-48xxS_DEW**	18-75	30	T4A	RP30-48xxS_DGW
RPM40-48xxS_DGW**	18-75	40	T4A	RP40-48xxS_DGW
RPM60-24xxSG**	18-36	60	T8A	RP60-24xxSG
RPM60-48xxSG**	36-75	60	T4A	RP60-48xxSG

** add /P or /N for Positive or Negative CTRL logic

Selection Guide Single and Dual Outputs - DIN Rail Version

Power Module Part Number (DIN rail Version)	Input Range VDC	Output Power Watts	Internal Fuse (Replaceable)	Converter Series
RPMD15-24xxS_DFW**	9.5-36	15	T4A	RP15-24xxS_DFW
RPMD15-48xxS_DFW**	18-75	15	T4A	RP15-48xxS_DFW
RPMD20-24xxS_DFW**	9.5-36	20	T4A	RP20-24xxS_DFW
RPMD20-48xxS_DFW**	18-75	20	T4A	RP20-48xxS_DFW
RPMD30-24xxS_DEW**	10-40	30	T6A	RP30-24xxS_DEW
RPMD30-48xxS_DEW**	18-75	30	T4A	RP30-48xxS_DEW
RPMD40-24xxS_DGW**	9.5-36	40	T4A	RP40-24xxS_DGW
RPMD40-48xxS_DGW**	18-75	40	T4A	RP40-48xxS_DGW
RPMD60-24xxSG**	18-36	60	T8A	RP60-24xxSG
RPMD60-48xxSG**	36-75	60	T4A	RP60-48xxSG

** add /P or /N for Positive or Negative CTRL logic

xx = Output Voltage Options Single Outputs: 3.3S = 3.3V 05S = 5V 12S = 12V 15S = 15V
Dual Outputs: 12D = ±12V 15D = ±15V

Refer to converter series datasheets for detailed information.

POWERLINE

DC/DC-Converter
Power Module

with 3 year Warranty

RECOM

15-60 Watt

Single
& Dual
Outputs

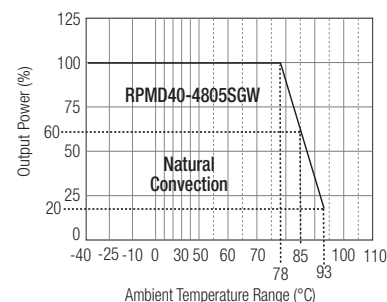


EN-60950-1 Certified
CE Marked

Power
Modules

Derating-Graph (Ambient Temperature)

DIN Rail Version



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 info@recom-development.at

Please Read Application Notes

Selection Guide Triple Outputs - Panel Mount Version

Power Module Part Number (Bulkhead Version)	Input Range VDC	Output Power Watts	Internal Fuse (Replaceable)	Converter Series
RPM40-120512TG**	9.5-18	40	T4A	RP40-120512TG
RPM40-120515TG**	9.5-18	40	T4A	RP40-120515TG
RPM40-240512TG**	18-36	40	T4A	RP40-240512TG
RPM40-240515TG**	18-36	40	T4A	RP40-240515TG
RPM40-480512TG**	36-75	40	T4A	RP40-480512TG
RPM40-480515TG**	36-75	40	T4A	RP40-480515TG

Selection Guide Triple Outputs - DIN Rail Version

Power Module Part Number (DIN rail Version)	Input Range VDC	Output Power Watts	Internal Fuse (Replaceable)	Converter Series
RPMD40-120512TG**	9.5-18	40	T4A	RP40-120512TG
RPMD40-120515TG**	9.5-18	40	T4A	RP40-120515TG
RPMD40-240512TG**	18-36	40	T4A	RP40-240512TG
RPMD40-240515TG**	18-36	40	T4A	RP40-240515TG
RPMD40-480512TG**	36-75	40	T4A	RP40-480512TG
RPMD40-480515TG**	36-75	40	T4A	RP40-480515TG

Specifications (typical at nominal input and 25°C unless otherwise noted)

Specifications are as in individual converter datasheets with the following exceptions:

Bulkhead Version

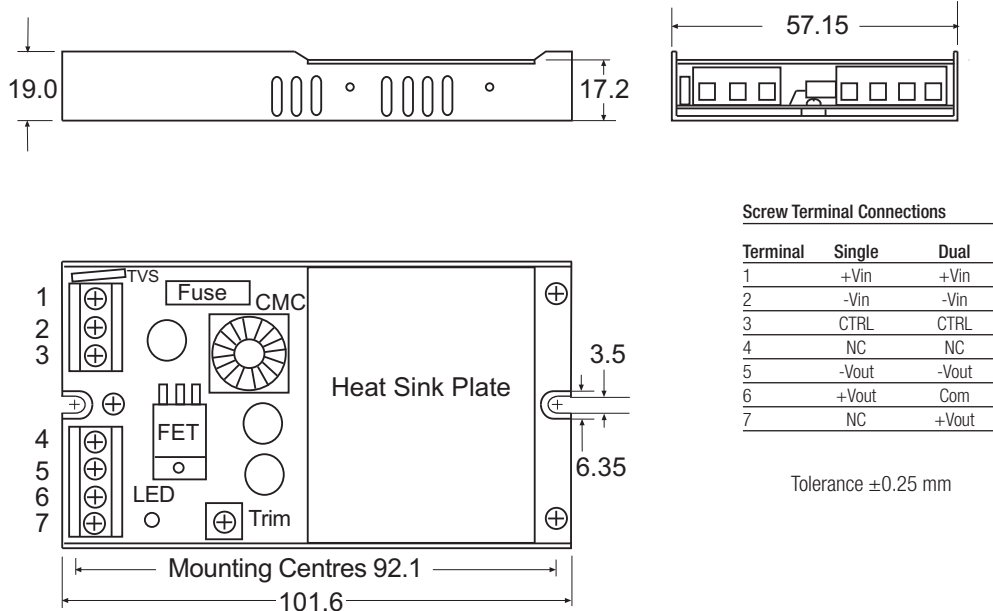
Input Voltage Range	see selection guide	
Inrush current	Nominal Vin and Full Load	soft start
Startup time	Power up: Nominal Vin and Full Load	100ms typ.
	CTRL pin: Nominal Vin and Full Load	20ms typ.
Thermal impedance	8.5°C/W	
Conducted Emissions	EN55022	Class B
Radiated Emissions	EN55022	Class B
ESD	EN61000-4-2	Perf. Criteria A
Radiated Immunity	EN61000-4-3	Perf. Criteria A
Fast Transient	EN61000-4-4	Perf. Criteria A
Surge	EN61000-4-5	Perf. Criteria A
Conducted Immunity	EN61000-4-6	Perf. Criteria A
Chassis Material	Aluminium	
Connectors	Screw Terminal	
Weight	134g	
Packing Quantity	1 pc.	
Dimensions	101.6 x 57.15 x 19.0mm	
Certifications	LVD20110124	EN-60950-1:2006 + A11:2009 +A1:2010

DIN-Rail Version

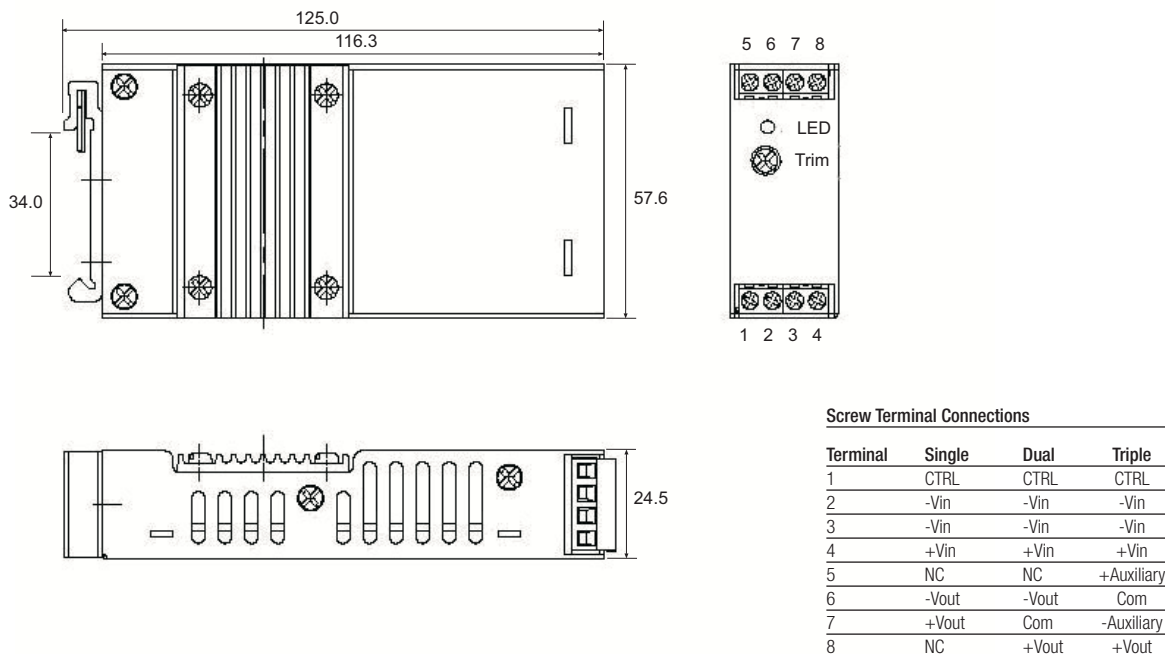
Input Voltage Range	see selection guide	
Inrush current	Nominal Vin and Full Load	<15A
Startup time	Power up: Nominal Vin and Full Load	100ms typ.
	CTRL pin: Nominal Vin and Full Load	20ms typ.
Thermal impedance	4.2°C/W	
Conducted Emissions	EN55022	Class B
Radiated Emissions	EN55022	Class B
ESD	EN61000-4-2	Perf. Criteria A
Radiated Immunity	EN61000-4-3	Perf. Criteria A
Fast Transient	EN61000-4-4	Perf. Criteria A
Surge	EN61000-4-5	Perf. Criteria A
Conducted Immunity	EN61000-4-6	Perf. Criteria A
Chassis Material	Aluminium	
Connectors	Screw Terminal	
Weight	182g	
Packing Quantity	30 pcs.	
Dimensions	125.0 x 57.6 x 24.5mm	
Certifications	LVD20110124	EN-60950-1:2006 + A11:2009 +A1:2010

Package Style and Connections

Panel Mount Version



DIN Rail Version



Tolerance ± 0.5 mm

Mouser Electronics

Authorized Distributor

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

RECOM:

[RPM30-1205SE-DIN](#) [RPM30-1212DE-DIN](#) [RPM30-1212SE-DIN](#) [RPM30-1215DE-DIN](#) [RPM30-1215SE-DIN](#)
[RPM30-123.3SE-DIN](#) [RPM30-2405SE-DIN](#) [RPM30-2405SEW/N-DIN](#) [RPM30-2405SEW-DIN](#) [RPM30-2412DE-DIN](#)
[RPM30-2412DEW/N-DIN](#) [RPM30-2412DEW-DIN](#) [RPM30-2412SE-DIN](#) [RPM30-2412SEW/N-DIN](#) [RPM30-2412SEW-](#)
[DIN](#) [RPM30-2415DE-DIN](#) [RPM30-2415DEW/N-DIN](#) [RPM30-2415DEW-DIN](#) [RPM30-2415SE-DIN](#) [RPM30-](#)
[2415SEW/N-DIN](#) [RPM30-2415SEW-DIN](#) [RPM30-243.3SE-DIN](#) [RPM30-243.3SEW/N-DIN](#) [RPM30-243.3SEW-DIN](#)
[RPM30-4805SE-DIN](#) [RPM30-4805SEW/N-DIN](#) [RPM30-4805SEW-DIN](#) [RPM30-4812DE-DIN](#) [RPM30-4812DEW/N-](#)
[DIN](#) [RPM30-4812DEW-DIN](#) [RPM30-4812SE-DIN](#) [RPM30-4812SEW/N-DIN](#) [RPM30-4812SEW-DIN](#) [RPM30-4815DE-](#)
[DIN](#) [RPM30-4815DEW/N-DIN](#) [RPM30-4815DEW-DIN](#) [RPM30-4815SE-DIN](#) [RPM30-4815SEW/N-DIN](#) [RPM30-](#)
[4815SEW-DIN](#) [RPM30-483.3SE-DIN](#) [RPM30-483.3SEW/N-DIN](#) [RPM30-483.3SEW-DIN](#) [RPM40-120512TG-DIN](#)
[RPM40-120515TG-DIN](#) [RPM40-1205SG-DIN](#) [RPM40-1212DG-DIN](#) [RPM40-1212SG-DIN](#) [RPM40-1215DG-DIN](#)
[RPM40-1215SG-DIN](#) [RPM40-123.3SG-DIN](#) [RPM40-240512TG-DIN](#) [RPM40-240515TG-DIN](#) [RPM40-2405SG-DIN](#)
[RPM40-2405SGW/N-DIN](#) [RPM40-2405SGW-DIN](#) [RPM40-2412DG-DIN](#) [RPM40-2412DGW/N-DIN](#) [RPM40-2412DGW-](#)
[DIN](#) [RPM40-2412SG-DIN](#) [RPM40-2412SGW/N-DIN](#) [RPM40-2412SGW-DIN](#) [RPM40-2415DG-DIN](#) [RPM40-](#)
[2415DGW/N-DIN](#) [RPM40-2415DGW-DIN](#) [RPM40-2415SG-DIN](#) [RPM40-2415SGW/N-DIN](#) [RPM40-2415SGW-DIN](#)
[RPM40-243.3SG-DIN](#) [RPM40-243.3SGW/N-DIN](#) [RPM40-243.3SGW-DIN](#) [RPM40-480512TG-DIN](#) [RPM40-480515TG-](#)
[DIN](#) [RPM40-4805SG-DIN](#) [RPM40-4805SGW/N-DIN](#) [RPM40-4805SGW-DIN](#) [RPM40-4812DG-DIN](#) [RPM40-](#)
[4812DGW/N-DIN](#) [RPM40-4812DGW-DIN](#) [RPM40-4812SG-DIN](#) [RPM40-4812SGW/N-DIN](#) [RPM40-4812SGW-DIN](#)
[RPM40-4815DG-DIN](#) [RPM40-4815DGW/N-DIN](#) [RPM40-4815DGW-DIN](#) [RPM40-4815SG-DIN](#) [RPM40-4815SGW/N-](#)
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[2405SG/N-DIN](#) [RPM60-2405SG-DIN](#) [RPM60-2412SG/N-DIN](#) [RPM60-2412SG-DIN](#) [RPM60-2415SG/N-DIN](#) [RPM60-](#)
[2415SG-DIN](#) [RPM60-243.3SG/N-DIN](#) [RPM60-243.3SG-DIN](#) [RPM60-4805SG/N-DIN](#) [RPM60-4805SG-DIN](#)