

## 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                 | F4A                         | RP15-24xxS_DFW   |
| RPM15-48xxS_DFW**                           | 18-75           | 15                 | F4A                         | RP15-48xxS_DFW   |
| RPM20-24xxS_DFW**                           | 9.5-36          | 20                 | F4A                         | RP20-24xxS_DFW   |
| RPM20-48xxS_DFW**                           | 18-75           | 20                 | F4A                         | RP20-48xxS_DFW   |
| RPM30-24xxS_DEW**                           | 10-40           | 30                 | F6A                         | RP30-24xxS_DEW   |
| RPM30-48xxS_DEW**                           | 18-75           | 30                 | F4A                         | RP30-48xxS_DGW   |
| RPM40-48xxS_DGW**                           | 18-75           | 40                 | F4A                         | RP40-48xxS_DGW   |
| RPM60-24xxSG**                              | 18-36           | 60                 | F8A                         | RP60-24xxSG      |
| RPM60-48xxSG**                              | 36-75           | 60                 | F4A                         | 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                 | F4A                         | RP15-24xxS_DFW   |
| RPMD15-48xxS_DFW**                          | 18-75           | 15                 | F4A                         | RP15-48xxS_DFW   |
| RPMD20-24xxS_DFW**                          | 9.5-36          | 20                 | F4A                         | RP20-24xxS_DFW   |
| RPMD20-48xxS_DFW**                          | 18-75           | 20                 | F4A                         | RP20-48xxS_DFW   |
| RPMD30-24xxS_DEW**                          | 10-40           | 30                 | F6A                         | RP30-24xxS_DEW   |
| RPMD30-48xxS_DEW**                          | 18-75           | 30                 | F4A                         | RP30-48xxS_DEW   |
| RPMD40-24xxS_DGW**                          | 9.5-36          | 40                 | F4A                         | RP40-24xxS_DGW   |
| RPMD40-48xxS_DGW**                          | 18-75           | 40                 | F4A                         | RP40-48xxS_DGW   |
| RPMD60-24xxSG**                             | 18-36           | 60                 | F8A                         | RP60-24xxSG      |
| RPMD60-48xxSG**                             | 36-75           | 60                 | F4A                         | RP60-48xxSG      |

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

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

Specifications are as in individual converter datasheets with the following exceptions:  
(move to top of next page)

## POWERLINE

DC/DC-Converter  
Power Module

with 3 year Warranty

RECOM

15-60 Watt

Single

& Dual

Outputs



CE



EN-60950-1 Certified  
CE Marked

Power  
Modules

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.

Please Read Application Notes

## Bulkhead Version

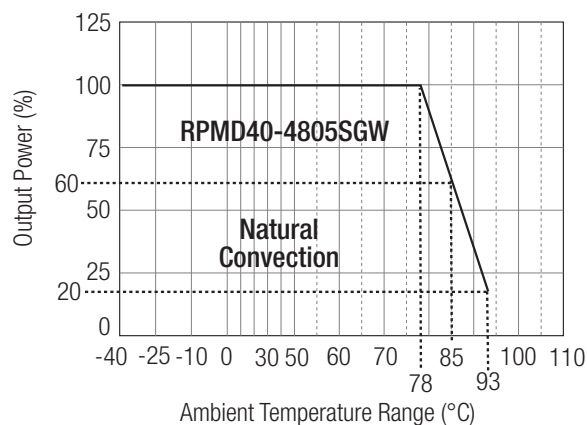
|                     |                                                                            |                                      |
|---------------------|----------------------------------------------------------------------------|--------------------------------------|
| Input Voltage Range | see selection guide                                                        |                                      |
| Inrush current      | Nominal Vin and Full Load                                                  | soft start                           |
| Startup time        | Power up: Nominal Vin and Full Load<br>CTRL pin: Nominal Vin and Full Load | 100ms typ.<br>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<br>CTRL pin: Nominal Vin and Full Load | 100ms typ.<br>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 |

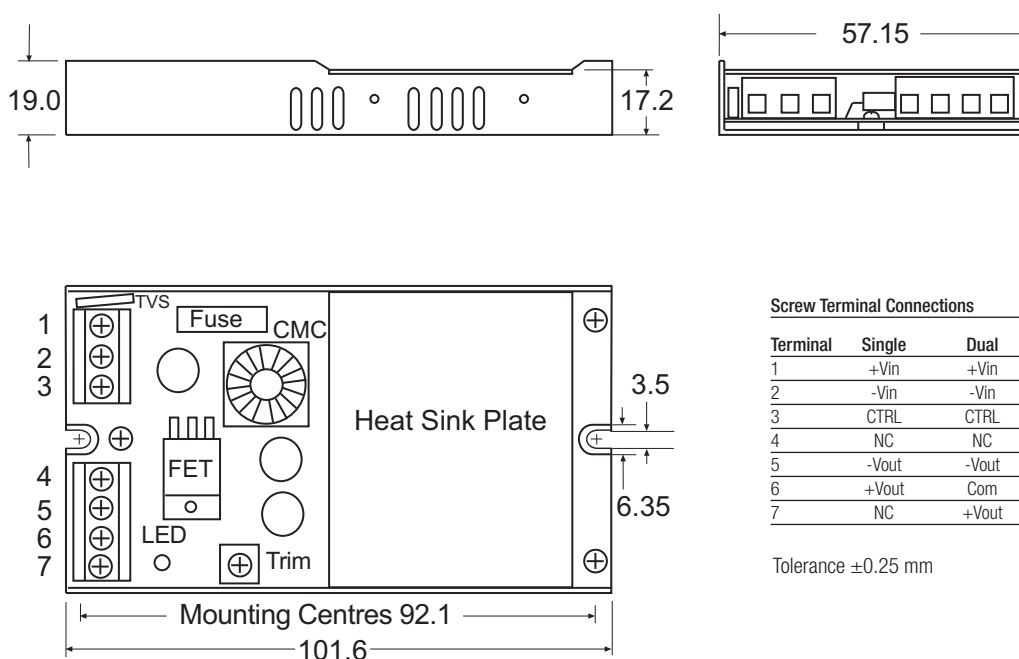
## Derating Graph (Ambient Temperature) - DIN Rail version

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 customer service at [info@recom-development.at](mailto:info@recom-development.at)

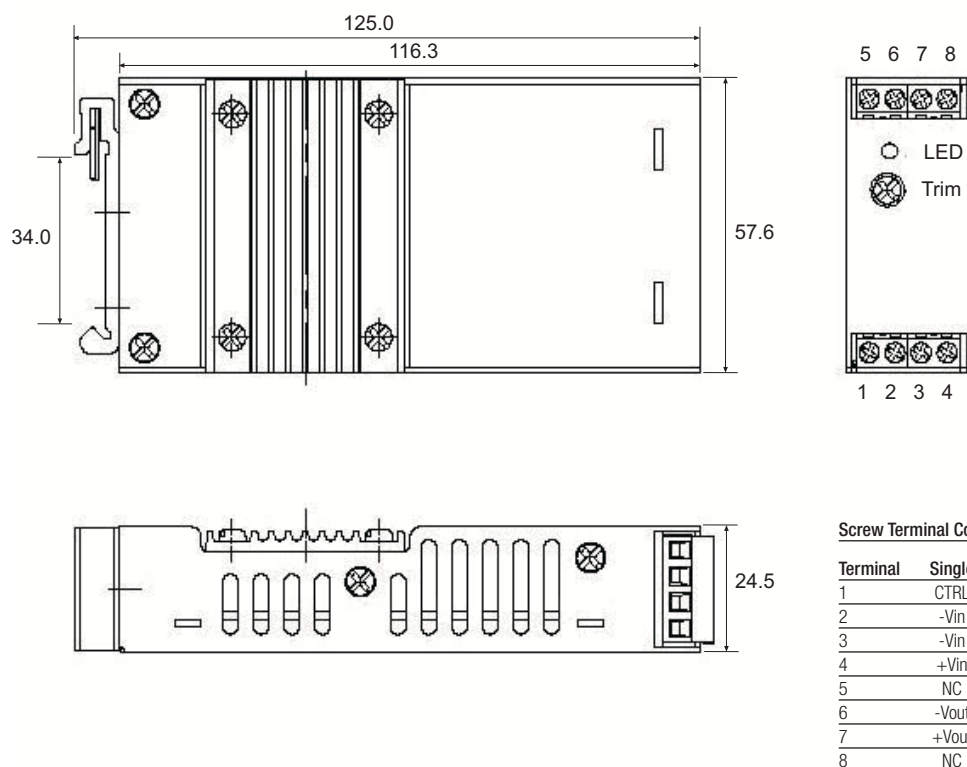


### Package Style and Connections

#### Panel Mount Version



#### DIN Rail Version





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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