

RACPRO1-T240Series


The slim RACPRO1-T240 is a high reliability, three phase AC input, 24V/240W DIN Rail mount power supply in extremely compact dimensions of 135 x 140.4mm with a width of only 43mm. It is specially designed for demanding applications in the harsh industrial automation field with an extended mains input surge immunity of up to 6kVAC and return voltage immunity >35V at the output making it suitable for safe operation against back feeding loads like decelerating motors and inductors. These units will deliver up to 240W over the full -40°C to +60°C ambient temperature range with only convection cooling. An extended power bonus of up to 288W at 45°C plus a power boost of up to 150% for 5s makes them suitable for powering highly inductive or capacitive loads. The unique and innovative modern design with 25° push-in connectors allows easy tool-less installation or replacement.

The product is certified according to the global safety standards IEC/EN/UL 62368-1, IEC/EN/UL 61010-1 and IEC/EN/UL/CSA 61010-2-201. Electromagnetic radiated and conducted emissions are compliant to heavy industrial EN 61000-6-4 Class B emission standard and EN 61000-6-2 immunity standard.

Unique selling proposition:

Unique design with 25° Push-In connectors//Easy tool-less installation or replacement//Extended Surge Immunity 2,5kVAC/6kVAC//Wide DC-Input range 430V-850V//Operating temperature -40°C to +70°C//Full Power up to +60°C without derating//Thermal Power Bonus 120%/45°C//Power Boost 150%/5s//Reduced no load power consumption 0.8W to 1.2W// Two phase AC operation from 2 x 350V AC up to 2 x 576V AC without derating//Highest Lifetime Expectancy 80.000h/40°C//Efficiency up to 94,1%//Width only 43mm//Low weight only 500g

Target customer:

Industrial Automation//Factory Automation//Building Automation//Process Automation//Power Generation//Energy Distribution//Test & Measurements//Infrastructure//Data & Telecom

Target applications examples:

Machinery Building Industry, e. g. tools, printing, packaging, woodworking, CNC, plastics//Applications inside of cabinets and other electronic enclosures//Renewable Energy, e. g. Wind, Photovoltaics, Biogas//Fossil Fuels//Process Controls//Battery Storage Systems//Power Distribution//Vendor//Traffic Engineering//Water Preparation//HVAC Systems

Main features:

Slim Design (43mm) with 25° Push-In connectors // Fast installation with toolless mounting and replacement//Active Inrush Current Limit//AC Input Range 3x320V to 3x575V//Two phase AC operation 2x350V to 2x576V without derating//DC-Input Range 430V to 850V//Highest Efficiency up to 94.1%//Adjustable output voltage 24V-28V// Reduced no load power consumption 0.8W to 1.1W//Operating temperature -40°C/+70°C//Full Power -40°C/+60°C//Bonus Power 120%/45°C, Power Boost 150%/5s//Easy Fuse Tripping & DC-OK signal//Highest Lifetime Expectancy 80.000h/40°C//Surge Immunity 2,5kVAC/6kVAC//Width only 43mm//Low weight only 530g

Global sales release date:

4th December 2024

Web release date:

6th November 2024

Available from sample stock:

none

RACPRO1-T480Series


The slim RACPRO1-T480 is a high reliability, three phase AC input, 480W DIN Rail mount power supply with output 24V or 48V in extremely compact dimensions of 135 x 155.7mm with a width of only 52mm. It is specially designed for demanding applications in the harsh industrial automation field with an extended mains input surge immunity of up to 6kVAC and return voltage immunity >35V/24V & >63V/48V at the output making it suitable for safe operation against back feeding loads like decelerating motors and inductors. These units will deliver up to 480W over the full -40°C to +60°C ambient temperature range with only convection cooling. An extended power bonus of up to 576W at 45°C plus a power boost of up to 150% for 5s makes them suitable for powering highly inductive or capacitive loads. The unique and innovative modern design with 25° push-in connectors allows easy tool-less installation or replacement.

The product is certified according to the global safety standards IEC/EN/UL 62368-1, IEC/EN/UL 61010-1 and IEC/EN/UL/CSA 61010-2-201. Electromagnetic radiated and conducted emissions are compliant to heavy industrial EN 61000-6-4 Class B emission standard and EN 61000-6-2 immunity standard.

Unique selling proposition:

Unique design with 25° Push-In connectors//Easy tool-less installation or replacement//Extended Surge Immunity 2.5kVAC/6kVAC//Wide DC-Input range 430V-850V//Operating temperature -40°C to +70°C//Full Power up to +60°C without derating//Thermal Power Bonus 120%/45°C//Power Boost 150%/5s//Reduced no load power consumption 1.9W-3.0W//Battery Charging or Parallel Operation switchable//Highest Lifetime Expectancy 80.000h/40°C//Efficiency up to 95.3%//Load Indication by LED//Width only 52mm//Low weight only 800g
Industrial Automation//Factory Automation//Building Automation//Process Automation//Power Generation//Energy Distribution//Test & Measurements//Infrastructure//Data & Telecom

Target customer:
Target applications examples:

Machinery Building Industry, e. g. tools, printing, packaging, woodworking, CNC, plastics//Applications inside of cabinets and other electronic enclosures//Renewable Energy, e. g. Wind, Photovoltaics, Biogas//Fossil Fuels//Process Controls//Battery Storage Systems//Power Distribution//Vendor//Traffic Engineering//Water Preparation//HVAC Systems

Main features:

Slim Design (52mm) with 25° Push-In connectors // Fast installation with toolless mounting and replacement//Power Factor Correction >0.9//Active Inrush Current Limit//AC-Input Range 3x320V to 3x575V//DC-Input Range 430V to 850V//Highest Efficiency up to 95.3%//Adjustable output voltage 24V-28V & 48V-56V//Reduced no load power consumption 1.9W to 3.0W//Operating temperature -40°C/+70°C//Full Power -40°C/+60°C//Thermal Power Bonus 120%/45°C, Power Boost 150%/5s//Load Indication by LED//Easy Fuse Tripping & DC-OK signal//Highest Lifetime Expectancy 80.000h/40°C//Surge Immunity 2.5kVAC/6kVAC//Width only 52mm//Low weight only 770g

Global sales release date:

4th December 2024

Web release date:

6th November 2024

Available from sample stock:

none

RACPRO1-T960Series


The slim RACPRO1-T960 is a high reliability, three phase AC input, 960W DIN Rail mount power supply with output 24V or 48V in extremely compact dimensions of 135 x155.7mm with a width of only 80mm. It is specially designed for demanding applications in the harsh industrial automation field with an extended mains input surge immunity of up to 6kVAC and return voltage immunity >35V/24V & >63V/48V at the output making it suitable for safe operation against back feeding loads like decelerating motors and inductors. These units will deliver up to 960W over the full -40°C to +60°C ambient temperature range with only convection cooling. An extended power bonus of up to 1152W at 45°C plus a power boost of up to 150% for 5s makes them suitable for powering highly inductive or capacitive loads. The unique and innovative modern design with 25° push-in connectors allows easy tool-less installation or replacement.

The product is certified according to the global safety standards IEC/EN/UL 62368-1, IEC/EN/UL 61010-1 and IEC/EN/UL/CSA 61010-2-201. Electromagnetic radiated and conducted emissions are compliant to heavy industrial EN 61000-6-4 Class B emission standard and EN 61000-6-2 immunity standard.

Unique selling proposition:

Unique design with 25° Push-In connectors//Easy tool-less installation or replacement//Efficiency up to 96.9%//Extended Surge Immunity 2.5kVAC/6kVAC//Wide DC-Input range 430V-850V//Operating temperature -40°C to +70°C//Full Power up to +60°C without derating//Thermal Power Bonus up to 120%/45°C//Power Boost 150%/5s//Reduced no load power consumption 1.8W-3.3W//Battery Charging or Parallel Operation switchable//Highest Lifetime Expectancy 80.000h/40°C//Load Indication by LED//Width only 80mm//Low weight only 1600g

Target customer:

Industrial Automation//Factory Automation//Building Automation//Process Automation//Power Generation//Energy Distribution//Test & Measurements//Infrastructure//Data & Telecom

Target applications examples:

Machinery Building Industry, e. g. tools, printing, packaging, woodworking, CNC, plastics//Applications inside of cabinets and other electronic enclosures//Renewable Energy, e. g. Wind, Photovoltaics, Biogas//Fossil Fuels//Process Controls//Battery Storage Systems//Power Distribution//Vendor//Traffic Engineering//Water Preparation//HVAC Systems

Main features:

Slim Design (80mm) with 25° Push-In connectors // Fast installation with toolless mounting and replacement//Power Factor Correction >0.9//Active Inrush Current Limit//AC-input Range 3x320V to 3x575V//DC-Input Range 430V to 850V//Highest Efficiency up to 96.9%//Reduced no load power consumption 1.8W to 3.3W//Operating temperature -40°C/+70°C//Full Power -40°C/+60°C//Thermal Power Bonus 120%/45°C, Power Boost 150%/5s//Load Indication by LED//Easy Fuse Tripping & DC-OK signal//Highest Lifetime Expectancy 80.000h/40°C//Surge Immunity 2,5kVAC/6kVAC//Width only 80mm//Low weight only 1140g

Global sales release date:

2nd January 2025

Web release date:

6th November 2024

Available from sample stock:

none

RACPRO1-4SP/24V/5A Series


The RACPRO1-4SP series are 4-channel electronic fuse (e-Fuse) load switches with independent overcurrent limit control and real-time output current indication. Each channel is separately protected so that overload or fault conditions on an individual load do not affect overall system reliability or function. The useful LED indicators show the output current and change from green to yellow (current within limits) to orange (current at limit) to red (overcurrent or short-circuit). A volt-free DC-OK output can be used to monitor system function. Each channel can also be switched ON or OFF to ease fault diagnostics or for maintenance. The RECOM e-Fuses RACPRO1-4SP-24V/5A are available with 5A maximum channel current and 150% power boost for 5s but can handle >150% overload for up to 100ms to avoid nuisance tripping. The channels power up in sequence to reduce the input inrush current with a pre-settable delay time. Under system overload conditions, the channels will disconnect the loads in reverse sequence, keeping essential functions running to the last. Output overload hiccup or tripping mode is adjustable by a switch and the 5A modules can also be set to limit the available power to below 100W for LPS installations (NEC Class 2). The e-Fuses have a high lifetime expectancy >80.000h/40°C and easy wiring with tool-less push-in and lever-release terminals. The input and output terminals are also paired to allow easy daisy chaining.

Unique selling proposition:

Push-In connectors for tool-less wiring//Start-Up delay adjustable by switch//NEC Class 2 limit switchable//Individual switching of every channel//Adjustable power limitation and load indication//Short Circuit Protection and Power Boost 150%/5s//Over current protection >150%/100ms//Secure Start-Up with highly capacitive load//Overload priority channel protection//Output Hiccup or Tripping mode adjustable by switch//Daisy Chaining with multiple modules and easy wiring//Paired Input (+, -) connectors included//Output connector with (+) and (-) pin//24V Input with Under voltage Lockout (UVLO) Industrial Automation//Factory Automation//Building Automation//Process Automation//Power Generation//Energy Distribution//Test & Measurements//Infrastructure//Data & Telecom

Target customer:
Target applications examples:

Machinery Building Industry, e. g. tools, printing, packaging, woodworking, CNC, plastics//Applications inside of cabinets and other electronic enclosures//Renewable Energy, e. g. Wind, Photovoltaics, Biogas//Fossil Fuels//Process Controls//Battery Storage Systems//Power Distribution//Vendor//Traffic Engineering//Water Preparation//HVAC Systems

Main features:

Push-In connectors for tool-less wiring//Fast installation with tool-less mounting//Start-Up delay adjustable by switch//NEC Class 2 limit switchable//Individual switching of every channel//Adjustable power limitation and load indication//Short Circuit Protection and Power Boost 150%/5s//Over current protection >150%/100ms//Secure Start-Up with highly capacitive load//Reset by Remote Control//DC-OK signal//Overload priority channel protection//Output Hiccup or Tripping mode adjustable by switch//Daisy Chaining with multiple modules and easy wiring//Paired Input (+, -) connectors included//Output connector with (+) and (-) pin//Highest Lifetime Expectancy 80.000h/40°C//24V Input with Under voltage Lockout (UVLO)//Made in Europe

Global sales release date:

4th December 2024

Web release date:

6th November 2024

Available from sample stock:

none

RACPRO1-4SP/24V/10ASeries


The RACPRO1-4SP series are 4-channel electronic fuse (e-Fuse) load switches with independent overcurrent limit control and real-time output current indication. Each channel is separately protected so that overload or fault conditions on an individual load do not affect overall system reliability or function. The useful LED indicators show the output current and change from green to yellow (current within limits) to orange (current at limit) to red (overcurrent or short-circuit). A volt-free DC-OK output can be used to monitor system function. Each channel can also be switched ON or OFF to ease fault diagnostics or for maintenance. The RECOM e-Fuses RACPRO1-4SP-24V/10A are available with 10A maximum channel current and 150% power boost for 5s but can handle >150% overload for up to 100ms to avoid nuisance tripping. The channels power up in sequence to reduce the input inrush current with a pre-settable delay time. Under system overload conditions, the channels will disconnect the loads in reverse sequence, keeping essential functions running to the last. Output overload hiccup or tripping mode is adjustable by a switch. The e-Fuses have a high lifetime expectancy >80.000h/40°C and easy wiring with tool-less push-in and lever-release terminals. The input and output terminals are also paired to allow easy daisy chaining.

Unique selling proposition:

Push-In connectors for tool-less wiring//Start-Up delay adjustable by switch//Individual switching of every channel//Adjustable power limitation and load indication//Short Circuit Protection and Power Boost 150%/5s//Over current protection >150%/100ms//Secure Start-Up with highly capacitive load//Overload priority channel protection//Output Hiccup or Tripping mode adjustable by switch//Daisy Chaining with multiple modules and easy wiring//Paired Input (+, -) connectors included//Output connector with (+) and (-) pin//24V Input with Under voltage Lockout (UVLO)

Target customer:

Industrial Automation//Factory Automation//Building Automation//Process Automation//Power Generation//Energy Distribution//Test & Measurements//Infrastructure//Data & Telecom

Target applications examples:

Machinery Building Industry, e. g. tools, printing, packaging, woodworking, CNC, plastics//Applications inside of cabinets and other electronic enclosures//Renewable Energy, e. g. Wind, Photovoltaics, Biogas//Fossil Fuels//Process Controls//Battery Storage Systems//Power Distribution//Vendor//Traffic Engineering//Water Preparation//HVAC Systems

Main features:

Push-In connectors for tool-less wiring//Fast installation with tool-less mounting//Start-Up delay adjustable by switch//Individual switching of every channel//Adjustable power limitation and load indication//Short Circuit Protection and Power Boost 150%/5s//Over current protection >150%/100ms//Secure Start-Up with highly capacitive load//Reset by Remote Control//DC-OK signal//Overload priority channel protection//Output Hiccup or Tripping mode adjustable by switch//Daisy Chaining with multiple modules and easy wiring//Paired Input (+, -) connectors included//Output connector with (+) and (-) pin//Highest Lifetime Expectancy 80.000h/40°C//24V Input with Under voltage Lockout (UVLO)//Made in Europe

Global sales release date:

4th December 2024

Web release date:

6th November 2024

Available from sample stock:

none

RAC04NE-K/277Series


RAC04NE-K are exceptionally robust AC/DC modules for a maximum power range of 4 to 6 watts and have been specially designed for continuous operation under significantly expanded operating conditions. The full output power of 100% is available from -40°C to 80°C and also for all global single-phase AC networks or 100/115/200/230/277 VAC. OVCIII is maintained up to 3000m operating altitude, or overvoltage category OVCII up to 5000m. The immunity to interference voltages is 2 kV (L-N); 4 kV (L-PE), which is significantly higher than usual for modules of this size. An integrated emission filter offers scope for system integration in accordance with EN55032 "B", also with load-side potential equalization of sensitive electronics or protection type PELV. In addition to the encapsulated print modules, a wired mechanical variant with mounting tabs and IP65 water resistance is available, which has also been approved according to IEC61347.

Unique selling proposition:

100-277VAC input with a full load up to +80°C // Enhanced surge ratings of 2kV (L-N); 4kV (L-PE) with performance criteria A // OVCIII overvoltage category up to 3000m Altitude // 6 watt boost power for up to 20s // Wired version with mounting tabs: IP65 rated // EN55032 class B; floating or earth referenced // 3 year warranty

Target customer:

Building and Home Automation // Lighting // Test & Measurement // Datacom & Telecom // E-mobility // Metering & Energy monitoring // Industrial Automation // Infrastructure // Intralogistics //

Target applications examples:

effect, ambient and safety lights // energy management // control panels // Aux & stand by mode power supply // interface power supply // applications power-self-consumption coverage

Main features:

Extra versatile 4 to 6 Watt AC/DC modules // 100 – 277Vac input ratings with full load up to 80°C // extended input voltage for 100/115/200/230/277Vac usage without line related power derating requirements // Enhanced surge ratings of 4kV (L-PE) / 2kV (L-N) performance criteria A for harsh environments and expositions // OVC III over voltage category @ up to 3000m Altitude // Variants as encapsulated or cost effective open card modules // EN55032 class "B" ratings with sufficient margin under PELV connections limiting filtering efforts for secondary side ground references // Wired Version with mounting tabs approved to IP65 ratings

Global sales release date:

27th November 2024

Web release date:

6th November 2024

Available from sample stock:

RAC04NE-05SK/277; RAC04NE-09SK/277; RAC04NE-12SK/277; RAC04NE-15SK/277; RAC04NE-24SK/277; RAC04NE-05SK/277/W

**RAC20NE-
K/277 and /OF**


RAC20NE-K, open frame or encapsulated solder mount built-in power supplies are optimized for the requirements of new energy applications such as energy management, monitoring, or actuator operation. These compact AC/DC modules meet increased requirements in terms of ambient temperatures, high immunity levels against transients, adopted insulation barriers, EMC interference freedom with secondary ground connection, low power loss in full load operation, standby, and sleep mode. For the supply of universal input voltages of 100 to 277 VAC, the modules are available in various versions according to worldwide industrial, household, and safety transformer standards at operating altitudes of up to 5000 m or up to 3000 m under OVC III approved. High effective power density and industrial standard P12 pinning on a 1"x2" footprint fits in space critical cubature.

Unique selling proposition:

23W boost power or alternatively 20W continuous output with CV/CC constant current limitation // OVC III rating up to 3000m operating altitude and 5000m under OVC II // increased surge immunity 2kVAC: L-N &; 4kV against FE earth // integrated EN55032 class "B" filtering with grounded and floating loads as well

Target customer:

new energy // IoT // industrial automation // machinery //

Target applications examples:

new energy monitoring and measurement // actuator control systems // energy management, internal auxiliary power coverage // EV Chargers // Meters

Main features:

100-277 AC input ratings // high power ratings at increased ambient operating temperatures // high efficiency from standby mode to full load // integrated EMI filter for PELV or grounded connections // enhanced surge immunity // 5000m operating altitude (OVC II) // OVC III overvoltage category up to 5000m altitude// boost power enabled hiccup mode over current protection or optional CV/CC regulation with constant current limitation // household certified isolating isolation barriers //

Global sales release date:

12th February 2025

Web release date:

6th November 2024

Available from sample stock:

none

**RAC20NE-
K/277/EPID**


RAC20NE-K/277/EPID, power supplies are shaped to flexibly fit into different mounting conditions, regardless of whether back panel mounting with screws or clipping onto DIN rails is required. Apart from the push-in terminals for tool-free connection of wire cross-sections of up to 2.5mm² or AWG12, the encapsulated modules are IP40 ingress protected. Despite their extremely compact design, the class II units offer increased resistance to surges up to 2kV L-N and 4kV to FE-earth as well as EMI-interference filters to withstand EN55032 Class "B" requirements under floating and earth reference load conditions such as PELV. Fully certified to safety standards UL/IEC62368; IEC61347; IEC61558 and EN60335 with overvoltage category OVC III for worldwide nominal input voltages 100-277 VAC under full load from -40°C to 55°C or with power limitation up to 85°C, constant regulated output voltage from 5V to 36Vdc are available, and CV with constant current overload limitation protection is available as an option.

Unique selling proposition:

23W boost power or alternatively 20W continuous output with CV/CC constant current limitation // OVC III rating up to 3000m operating altitude and 5000m under OVC II // increased surge immunity 2kVAC: L-N & 4kV against FE earth // integrated EN55032 class "B" filtering with grounded and floating loads as well // flexible installation choice to flat panel DIN-rails using 1.5U width or screw mount to back-panels

Target customer:

new energy // IoT // industrial automation // machinery //

Target applications examples:

new energy monitoring and measurement // actuator control systems // energy management, internal auxiliary power coverage // EV Chargers // Meters // flat panel DIN-RAIL (1.5U width) and back-panel mounting

Main features:

100-277 AC input ratings // high power ratings at increased ambient operating temperatures // high efficiency from stand by mode to full load // integrated EMI filter for PELV or grounded connections // enhanced surge immunity // 5000m operating altitude (OVC II) // OVC III over voltage category up to 5000m altitude// boost power enabled hiccup mode over current protection or optional CV/CC regulation with constant current limitation // household certified isolating isolation barriers // Lighting certification to IEC61347

Global sales release date:

12th February 2025

Web release date:

6th November 2024

Available from sample stock:

none