





EV-CHARGER

DC/DC: RPX-1.0, RA3-1503D/SMD | AC/DC: RAC05-K/480, RAC20-K/X6



Handling EV-charger power levels in the kilowatts range requires safe, reliable and secure charger system design. The majority of EV-charger design effort is still being invested in developing new charger topologies and architectures or choosing optimal power components, but the main technical challenge is not the power stage!

DC/DC	RPX-1.0	RA3-1503D/SMD
Image		
Key Features	Buck regulator power module with integrated shielded inductor 36VDC input voltage, 1A output current SCP, OCP, OTP, and UVLO protection Flip-chip technology for improved thermal management	3W isolated DC/DC converter input voltages of 5, 12, or 24VDC with single or dual asymmetric outputs to cover the latest Si, SiC, and GaN transistors IEC/EN/UL CSA 62368-1 certified Less than 10pF isolation capacitance
Key Applications	Excellent thermal performance for portable and weight-sensitive devices	For harsh environmental requirements for renewable energy such as solar inverters, induction heating, telecom, EV battery chargers, and motor drives
Key Benefits	3.0 x 5.0mm low profile QFN Enable, power good, soft start, and sync functions Wide operating temperature: from -40°C up to +110°C at full load	High 5.2kVDC/1min isolation Wide operating temperature range: -40°C to +85°C Ideal for IGBT/Si/SiC/GaN gate drive power Compact DIP16 SMD package



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DC/DC	RAC05-K/480	RAC20-K/X6
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Key Features	SCP, OVP, OCP, OTP, built-in fuse, complies with EMC Class B (no FG), up to 140% peak power, 5000m operating altitude OVC III according to IEC62477-1 (4k VAC reinforced isolation) 2" x 1", PCB mount Industrial, household and ITE certified (e.g. 62368-1, IEC/EN/UL 61010)	SCP, OVP, OCP, OTP, built-in fuse, complies with EMC Class B (no FG), up to 140% peak power, 5000m operating altitude OVC III according to IEC62477-1 (4k VAC reinforced isolation) 2" x 1", PCB mount Industrial, household and ITE certified (e.g. 62368-1, 60335-1, 61558-1, 61558-2-16)
Key Applications	ideal fit for integration into smart grid, renewable energy, photovoltaic, smart meters and IoT applications.	for IoT and smart applications
Key Benefits	Ultra-wide input range 85-528VAC OVC III input rating Overvoltage and overcurrent protected Class II installations (without FG)	Wide input range 85-264VAC Standby mode optimized PSU (ENER Lot 6) Ultra-high efficiency over entire load range Class II installations (without FG)