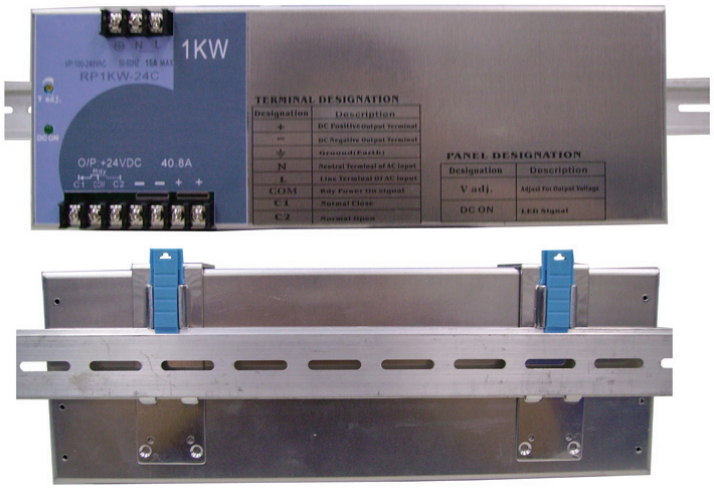
RP11K0 Series

1000 Watt DIN Rail Mount Switching Power Supply



Measures: 12.20 x 4.76 x 4.29"

Features:

* Universal AC Input (90-264 VAC)
* Internal Fan for Cooling
* Internal OR'ng
* Constant Current Operation
* Current Share and DC Good Signal
* Worldwide Safety Approvals
* EN55022 & FCC Class A Emissions
* CE Mark

Input

Input Voltage	90-264 VAC / 120-380 VDC
Input Frequency	47-440Hz
Inrush Current	40A Max @ 110 VAC Cold Start
Input Current	14A max continuous
Hold-Up Time	16ms minimum
Leakage Current	<750 μA @ 230 VAC
Harmonic Correction	EN61000-3-2 Compliant (Class D)

General

Efficiency	80-83% typical
Switching Frequency	Fixed (88-92KHz)
Topolgy	Fixed Frequency Forward Circuit
Operating Temperature	-25 to 50°C full load, derate 2.5% per °C to 70°C max.
Storage Temperature	-25°C to +85°C
Cooling	30 cfm airflow for full power @ 50°C
Temp Co-Efficient	0.03% per °C

Output

Minimum Load	n/a
Line Regulation	±1.0% typ.
Load Regulation	±1.0% max
Ripple & Noise	±1% typ. pk-pk @ 20MHz
Overload Protection	110-140% of max power
OverVoltage Protection	Latching at >130% of nominal
Adjustment	±10% minimum
Transient Response	voltage returns < 3mS following a 50% load change

EMC & Safety

Emissions	EN55022 "B", FCC Part 15 Subject J Class B
Safety Approvals	UL/cUL 60950 EN60950 CE Mark (LVD)

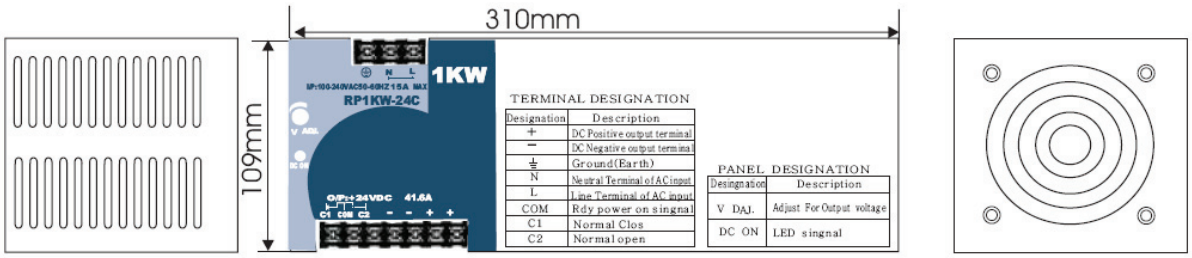
Model Number	Outputs	
DIN Rail Mount Versions:		
RP11K0D-12C	12V	83.3A
RP11K0D-15C	15V	66.6A
RP11K0D-24C	24V	41.6A
RP11K0D-48C	48V	20.8A
Chassis / Wall Mount Versions:		
RP11K0W-12C	12V	83.3A
RP11K0W-15C	15V	66.6A
RP11K0W-24C	24V	41.6A
RP11K0W-48C	48V	20.8A

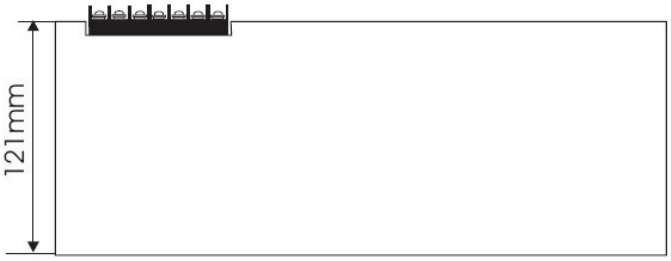
* Add the suffix "N" to remove OR'ng, Current Share and DC Good Functions

RoHS compliant

All Advanced Power Solutions (APS) products will be RoHS compliant. Products that are compliant will bear the suffix "-LF" in their part number. APS will continue to ship non-RoHS product until all inventory has been consumed unless customer's have specifically ordered the parts with the "-LF" suffix.

Mechanical Specifications:





RP11K0D (DINRAIL MOUNT MODELS)

RP11K0W (WALL / CHASSIS MOUNT MODELS)

INPUT AND OUTPUT CONNECTION VIA TERMINAL BLOCK
CONNECTIONS DEFINED ON POWER SUPPLY