

# RG-NIS-PA240-48 RG-NIS-PA120-48

## AC/DC 240/120W DIN-Rail Power Supply

DATASHEET



### Highlights

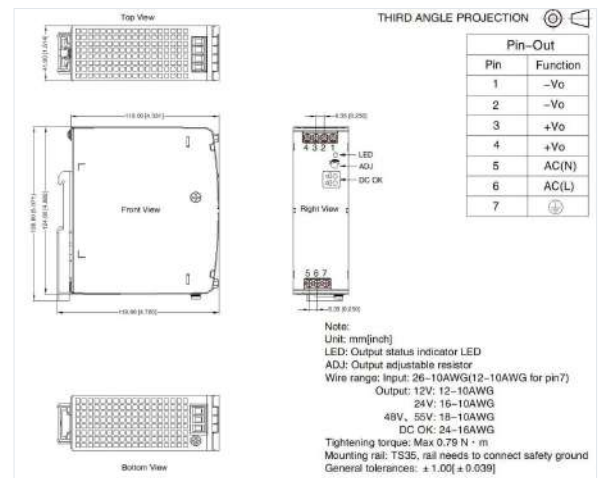
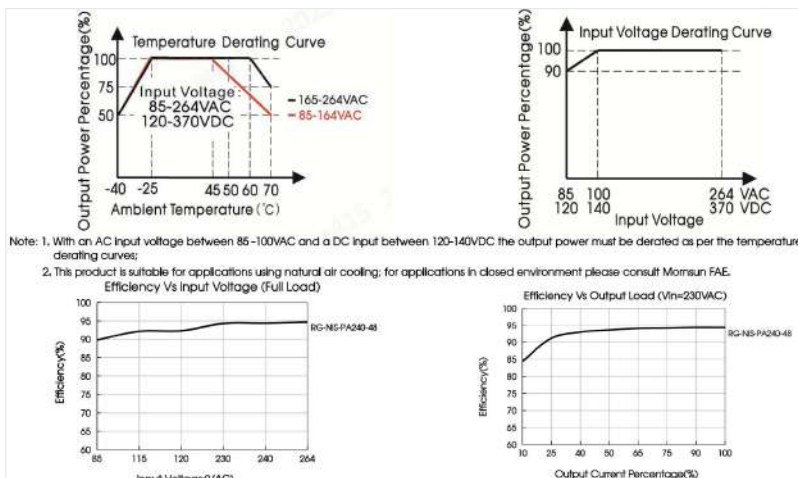
- Universal 85- 264VAC or 120- 370VDC Input voltage
- Accepts AC or DC input (dualuse of same terminal)
- Built-in active PFC function
- 150% peak load output for 3 seconds
- Output short circuit , over-current , over-voltage,over-temperature protection
- safety according to IEC/UL/BS EN 62368

# Specifications

Module Model	RG-NIS-PA240-48	RG-NIS-PA120-48
Rated Voltage Range	100–240 V, 50/60 Hz	100–240 V, 50/60 Hz
Max. Voltage Range	85–264 V, 47–63 Hz	85–264 V, 47–63 Hz
Max. Output Power	240 W	120 W
Ground-Leakage Current	≤ 0.5 mA	≤ 1 mA
Operating Temperature	–40°C to +70°C (–40°F to +158°F)	–40°C to +70°C (–40°F to +158°F)
Storage Temperature	–40°C to +85°C (–40°F to +185°F)	–40°C to +85°C (–40°F to +185°F)
Storage Humidity	Maximum: 95% RH (non-condensing)	20% RH to 95% RH (non-condensing)
Operating Humidity	Maximum: 90% RH (non-condensing)	Maximum: 90% RH (non-condensing)
Weight	0.65 kg (1.43 lbs.)	0.49 kg (1.08 lbs.)
Power Cord Specification	10 A power cord	10 A power cord

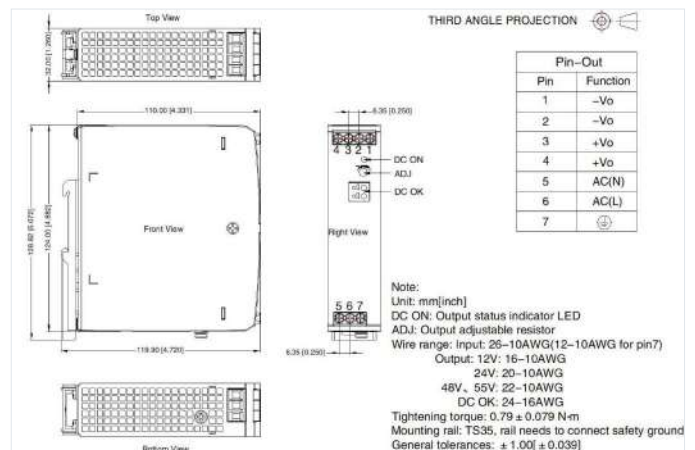
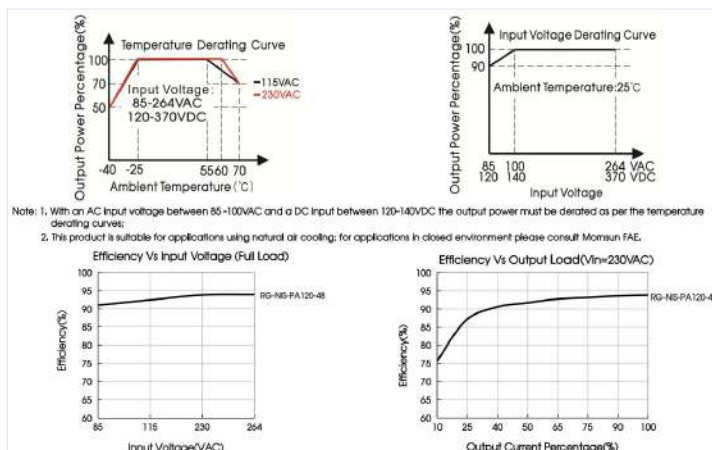
# Specifications

Item	Working Conditions (RG-NIS-PA240-48)		Value
Output power derating	Operating temperature derating	-40°C to -25°C (-40°F to -13°F)	3.34%/°C
		45°C to 70°C (113°F to 158°F)	115 V AC input 2.0%/°C
	60°C to 70°C (140°F to 158°F)	230 V AC input 2.5%/°C	
Input voltage derating	85 V AC to 100 V AC	0.67%/V AC	
Short circuit protection	After the short circuit is eliminated, the power supply is restored within 10s.		Hiccup mode: Maintain constant current for 1s and power off for 10s to provide long-term short circuit protection and self-recovery.
Overcurrent protection	230 V AC, rated load	Ordinary temperature, high temperature	110%–200% I <sub>o</sub> , self-recovery
		Low temperature	≥ 105% I <sub>o</sub> , self-recovery
Overvoltage protection	48 V		≤ 60 V (hiccup, self-recovery after an exception is eliminated)
Overtemperature protection	230 V AC, rated load		80°C (176°F)



# Specifications

Item	Working Conditions (RG-NIS-PA120-48)		Value
Output power derating	Operating temperature derating	-40°C to -25°C (-40°F to -13°F)	3.34%/°C
		55°C to 70°C (131°F to 158°F)	85 V AC to 164 V AC input
	60°C to 70°C (140°F to 158°F)	165 V AC to 264 V AC input	2.5%/°C
Input voltage derating	85 V AC to 100 V AC		0.67%/V AC
Short circuit protection	After the short circuit is eliminated, the power supply is restored within 10s.		Hiccup mode: Maintain constant current for 1s and power off for 10s to provide long-term short circuit protection and self-recovery.
Overcurrent protection	230 V AC, rated load	Ordinary temperature, high temperature	105%–200% I <sub>o</sub> , self-recovery
		Low temperature	≥ 105%, full load after derating, self-recovery
Overvoltage protection	48 V		≤ 60 V (hiccup, self-recovery after an exception is eliminated)
Overtemperature protection	230 V AC, 70% load 230 V AC, 70% load	Start of overtemperature protection	90°C (194°F)
		End of overtemperature protection	Lowest: 60°C (140°F)



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