

KEY FEATURES

- Non-Isolation Output
- Synchronous-rectifier Topologies
- Optional Vout trim and ON/OFF Control
- High Efficiency
- High Power Density
- 2-Year Product Warranty

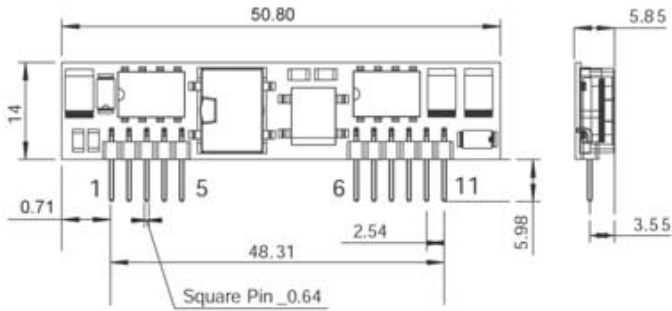

ELECTRICAL SPECIFICATIONS

Model No.	NI25-3-1.5S	NI25-3-1.8S	NI25-3-2.1S	NI25-3-2.5S
Max. output wattage (W)	15W	18W	21W	25W
Input voltage (V.DC.)	3V (3.0V-3.6V)	3V (3.0V-3.6V)	3V (3.0V-3.6V)	3V (3.0V-3.6V)
Output voltage (V.DC.)	1.5V / 10000mA	1.8V / 10000mA	2.1V / 10000mA	2.5V / 10000mA

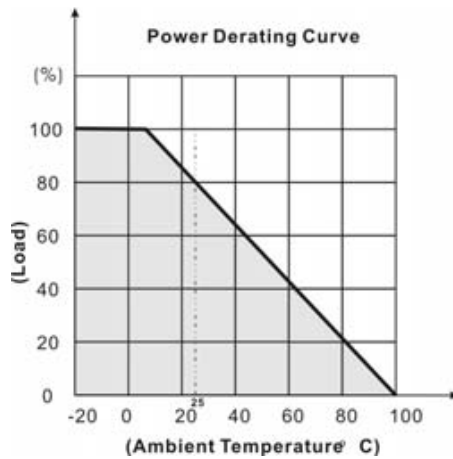
Model No.	NI25-5-1.5S	NI25-5-1.8S	NI25-5-2.1S	NI25-5-2.5S	NI25-5-3.3S
Max. output wattage (W)	15W	18W	21W	25W	33W
Input voltage (V.DC.)	5V (4.5V-5.5V)	5V (4.5V-5.5V)	5V (4.5V-5.5V)	5V (4.5V-5.5V)	5V (4.5V-5.5V)
Output voltage (V.DC.)	1.5V / 10000mA	1.8V / 10000mA	2.1V / 10000mA	2.5V / 10000mA	3.3V / 10000mA

Model No.	NI25-3-1.5S	NI25-3-1.8S	NI25-3-2.1S	NI25-3-2.5S	NI25-5-3.3S	
Max output wattage (W)	15W	18W	21W	25W	33W	
Input	Input filter: π type					
Output	Voltage (V.DC.)	1.5	1.8	2.1	2.5	3.3
	Voltage accuracy	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
	Current (mA) max	10000	10000	10000	10000	10000
	Line regulation (HL-LL) (typ.)	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
	Load regulation (10-100%) (typ.)	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
	Ripple	30mV max (Vp-p)				
	Noise	100mV max (Vp-p)				
	Efficiency	83%	85%	86%	88%	90%
Protection	Over current protection	Works over 120% of rating and shut down				
	Short circuit protection	Current limit, shut down				
Environment	Operating temperature	0°C...+50°C				
	Storage temperature	-55°C...+105°C				
	Case temperature	+95°C max.				
	Temperature coefficient	$\pm 0.02\%$ Per°C				
	Humidity	95% RH				
Physical	MTBF	>1,000,000 h @ 25°C (MIL-HDBK-217F)				
	Dimension (L x W x H)	2.0 x 0.55 x 0.24 Inches (50.8 x 13.9x 6.0 mm)				
	Case Material	Open Frame				
	Weight	5 g				
Cooling method	Free-air convection					

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

MECHANICAL DIMENSION (Top View)


PIN#	Single
1	+VOUT
2	+VOUT
3	NC
4	+VOUT
5	GND
6	GND
7	+VIN
8	+VIN
9	NC
10	TRIM
11	REMOTE ON/OFF

DERATING

BLOCK DIAGRAM
