

KEY FEATURES

- Non-Isolation Output
- Synchronous-rectifier Topologies
- 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 (3.0-3.6V)	3V (3.0-3.6V)	3V (3.0-3.6V)	3V (3.0-3.6V)
Output Voltage (V.DC.)	1.5V / 10,000mA	1.8V / 10,000mA	2.1V / 10,000mA	2.5V / 10,000mA
Efficiency	80%	84%	86%	88%

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 (4.5-5.5V)	5V (4.5-5.5V)	5V (4.5-5.5V)	5V (4.5-5.5V)	5V (4.5-5.5V)
Output Voltage (V.DC.)	1.5V / 10,000mA	1.8V / 10,000mA	2.1V / 10,000mA	2.5V / 10,000mA	3.3V / 10,000mA
Efficiency	83%	86%	88%	90%	92%

Model No.	NI25-3-1.5S NI25-5-1.5S	NI25-3-1.8S NI25-5-1.8S	NI25-3-2.1S NI25-5-2.1S	NI25-3-2.5S NI25-5-2.5S	NI25-5-3.3S	
Max Output Wattage (W)	15W	18W	21W	25W	33W	
Input	Capacitor					
	1.5	1.8	2.1	2.5	3.3	
Output	Input Filter	Voltage (V.DC.)				
	Voltage Accuracy	2%				
	Current (mA) max	10,000	10,000	10,000	10,000	10,000
	Line Regulation (LL-HL) (typ.)	0.5%				
	Load Regulation (10-100%) (typ.)	1%				
	Ripple	50mV max (Vp-p)				
	Noise	100mV max (Vp-p)				
Protection	Switching Frequency	500KHz				
	Over Power Protection	Works over 120% of rating and shut down				
Environment	Short Circuit Protection	Current limit, shut down				
	Operating Temperature	-25°C...+50°C (with derating)				
	Storage Temperature	-55°C...+105°C				
	Temperature Coefficient	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 0.34 x 0.55 Inches (51.0 x 8.6 x 14.0 mm) Tolerance 0.5 mm				
	Case Material	Open Frame				
	Weight	10 g				
	Cooling Method	Free-air convection				

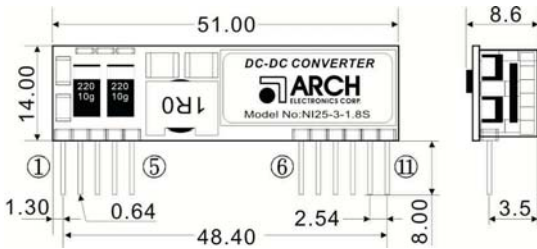
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

NI25 Series

Max 25W Encapsulated DC/DC Converters

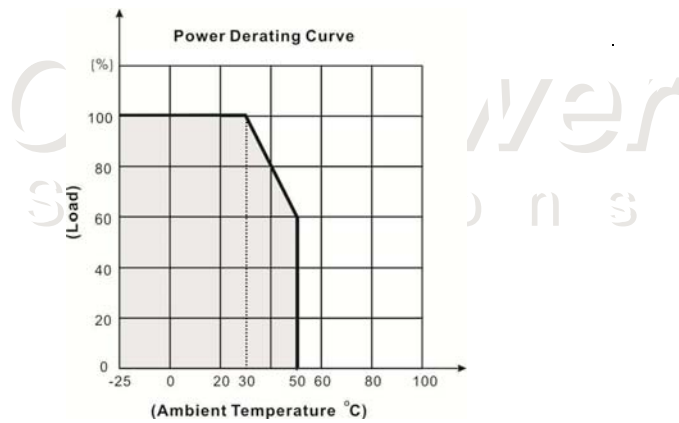
CoolPower
Solutions

MECHANICAL DIMENSION (Top View)



PIN#	SINGLE
1	+V OUT
2	+V OUT
3	NC
4	+V OUT
5	GND
6	GND
7	+V IN
8	+V IN
9	NC
10	TRIM
11	REMOTE ON/OFF

DERATING



BLOCK DIAGRAM

