



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



15 to 90W High Reliability Linear Power Supplies

Features

- ◆ Single and Dual Outputs
- ◆ Excellent Line & Load Regulation
- ◆ Remote Programming and Current Share (NNS)
- ◆ Front Panel Voltage Taps
- ◆ Thermal Protection
- ◆ Five Year Warranty
- ◆ Low Output Ripple
- ◆ Fully Featured
- ◆ Operation from -20 to +71°C Ambient



Key Market Segments & Applications



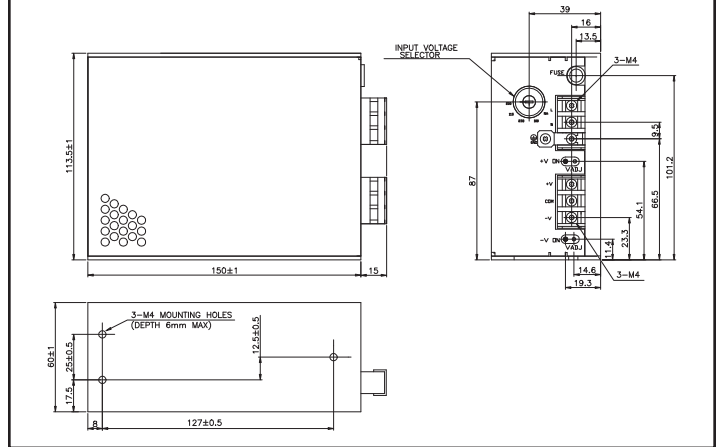
| Specifications | | NNS15 | NNS30 | NNS50 | NND15 | NND30 |
|---------------------------|-----|---|------------|------------|--------------|--------------|
| AC Input | VAC | 85~115, 98~132, 170~230, 195~265VAC (Front panel selectable) | | | | |
| Input Frequency | Hz | 47~440Hz | | | | |
| EMI | - | FCC Class B, VDE0871 Level B | | | | |
| Output Adjustment | - | ±10% | | | | |
| Remote Sense | - | Yes | Yes | Yes | None | |
| Remote Programming | - | 1000 Ohm/Volt | | | None | |
| Parallel Operation | - | Via PC Terminal | | | None | |
| Output Indicator | - | LED = On | | | | |
| Line Regulation | % | 0.01% | | | | |
| Load Regulation | % | 0.03% | | | | |
| Cross Regulation | % | Not applicable | | | 0.03% | |
| Ripple and Noise | mV | 1mV rms, 3mV peak to peak | | | | |
| Overcurrent Protection | % | 105 to 130% | | | | |
| Overvoltage Protection | VDC | 5V: 6 ~ 7.2V, 12V: 14.5 ~ 17.2V, 15V: 18.1 ~ 21.5V, 24V: 29 ~ 34.3V | | | | |
| Cooling | - | Convection | | | | |
| Operating Temp. Range | °C | -20°C: 60%, 0 to 50°C: 100%, 60°C: 60%, 71°C: 40% | | | | |
| Storage Temperature | °C | -40 to +85°C | | | | |
| Temperature coefficient | % | ±0.02% per °C | | | | |
| Humidity (non condensing) | %RH | Operating: 20 - 95% RH, Non operating: 10 - 95% RH | | | | |
| Vibration | - | 10-55Hz Amplitude (sweep for 1 min), <2G X, Y, Z 1 hour each | | | | |
| Shock (in package) | - | <20G | | | | |
| Safety Agency Approval | - | UL60950-1, CSA60950-1, EN60950-1, CE Mark | | | | |
| Withstand Voltage | - | Input to Output: 3.75kVAC, Input to Chassis: 2.5kVAC for 1 minute | | | | |
| Isolation Resistance | - | >100M at 500VDC @ 25C & 70%RH for 1 minute | | | | |
| Weight | g | 1750 | 2930 | 4200 | 1750 | 2750 |
| Size WxHxD | mm | 60x124x124 | 80x124x178 | 97x113x200 | 60x113.5x150 | 80x113.5x164 |
| Warranty | yrs | Five years | | | | |

Note: See Installation Manual for full details, test methods of parameters and application notes

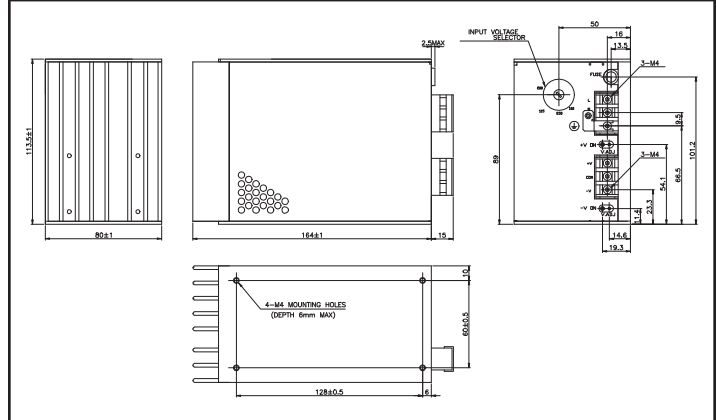
Model Selector

| | Model | O/P | O/P(V) | Max Cur.(A) | Max Pwr(W) | Eff. (%) |
|---------------|------------|-----|--------|-------------|------------|----------|
| Single Output | NNS155 | V1 | 5 | 3.0 | 15.0 | 35 |
| | NNS305 | V1 | 5 | 6.0 | 30.0 | 35 |
| | NNS505 | V1 | 5 | 10.0 | 50.0 | 42 |
| | NNS1512 | V1 | 12 | 1.7 | 20.4 | 45 |
| | NNS3012 | V1 | 12 | 4.0 | 48.0 | 45 |
| | NNS5012 | V1 | 12 | 6.5 | 78.0 | 51 |
| | NNS1515 | V1 | 15 | 1.4 | 21.0 | 46 |
| | NNS3015 | V1 | 15 | 3.4 | 51.0 | 46 |
| | NNS5015 | V1 | 15 | 5.5 | 82.5 | 53 |
| | NNS1524 | V1 | 24 | 0.9 | 21.6 | 50 |
| Dual Output | NND15-1212 | V1 | +12 | 0.75 | 18.0 | 45 |
| | | V2 | -12 | 0.75 | | |
| | NND30-1212 | V1 | +12 | 1.6 | 38.4 | 45 |
| | | V2 | -12 | 1.6 | | |
| | NND15-1515 | V1 | +15 | 0.6 | 18.0 | 45 |
| | | V2 | -15 | 0.6 | | |
| | NND30-1515 | V1 | +15 | 1.3 | 39.0 | 45 |
| | | V2 | -15 | 1.3 | | |

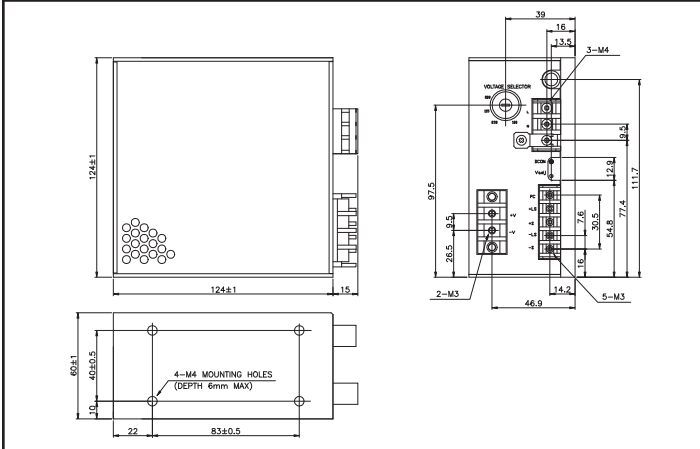
NND15 Outline Drawing



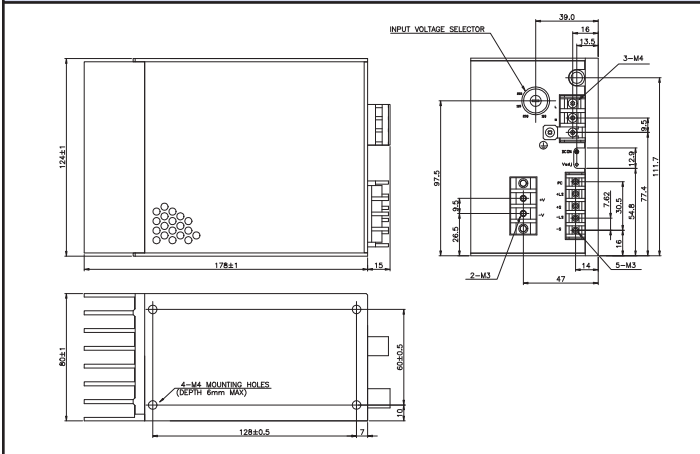
NND30 Outline Drawing



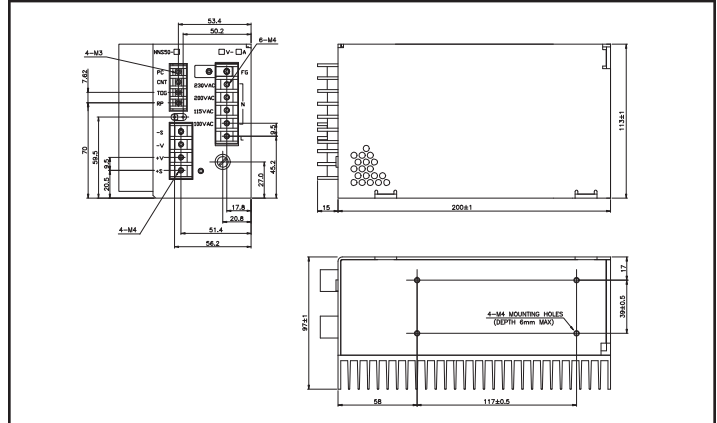
NNS15 Outline Drawing



NNS30 Outline Drawing



NNS50 Outline Drawing



Other Industrial Products

- HWS 15 to 1500W Single output, universal input switching
- ZWS 5 to 150W single output, universal input (switching)
- VSB & VSC 10 to 150W single output, 115VAC input (switching)

For Additional Information, please visit
us.tdk-lambda.com/lp/products/nn-series.htm

