



## DLP Series

75 to 240W, 24V Output  
DIN Rail Mount Power Supply

- Low Cost
- 3 Year Warranty
- Semi F47 Compliant (DLP180&240 only)
- Convection Cooled
- Conducted and Radiated EMI, Class B
- Input Transient Protection, IEC61000-4

### Key Market Segments & Applications

Industrial Controls: Motor Control Systems  
 Factory Automation: Process Control, Automotive,  
 Chemical Processing  
 Test & Measurement: Burn in & Test, Instrumentation  
 Measurement

### DLP Features and Benefits

#### Features

- PFC Compliant to EN61000-3-2
- UL508 Approvals
- 3 Year Warranty

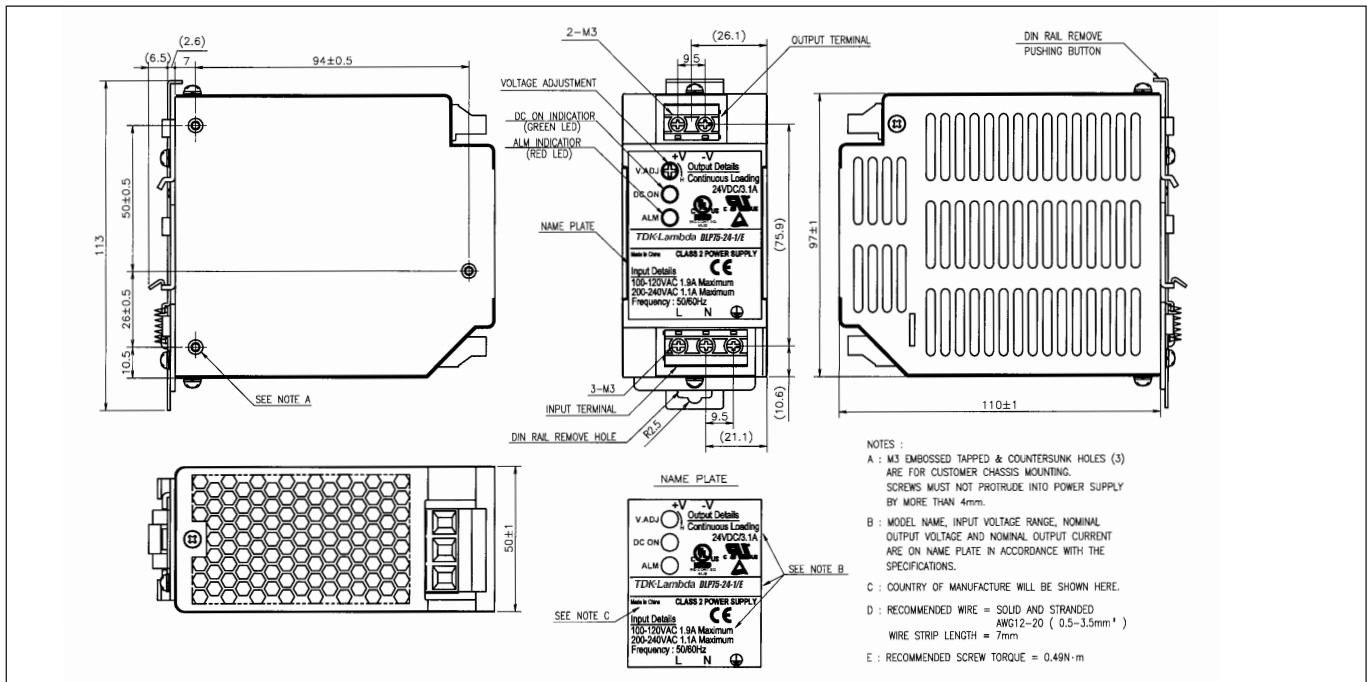
#### Benefits

- Supports Global Use
- Enables System Certification
- Fit & Forget

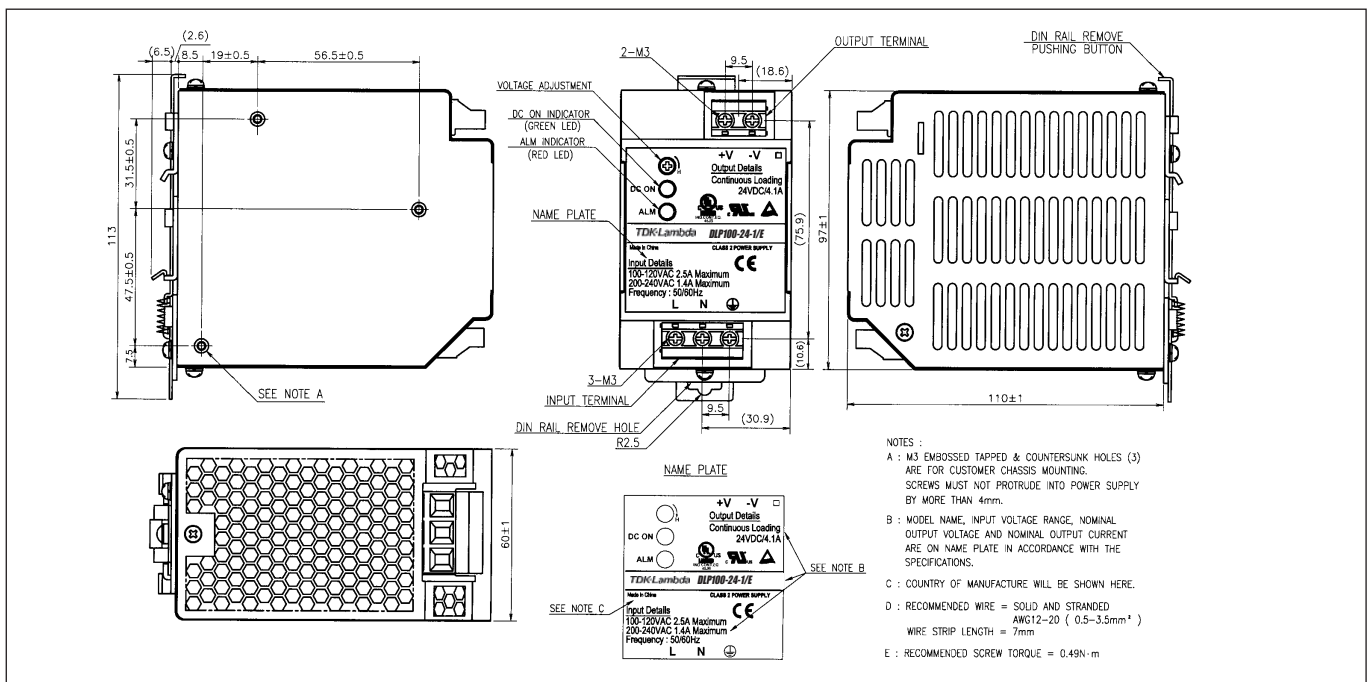
### Specifications

|                               | MODELS | DLP75-24-1/E                                                                                        | DLP100-24-1/E           | DLP120-24-1/E | DLP180-24-1/E                                       | DLP240-24-1/E  |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------|-------------------------|---------------|-----------------------------------------------------|----------------|
| Output Voltage                | V      | 24                                                                                                  | 24                      | 24            | 24                                                  | 24             |
| Output Current                | A      | 3.1                                                                                                 | 4.1                     | 5.0           | 7.5                                                 | 10             |
| Output Power                  | W      | 75                                                                                                  | 98.4                    | 120           | 180                                                 | 240            |
| Output Voltage Adjustment     | V      | 21.6 - 28                                                                                           |                         |               |                                                     |                |
| Load Regulation               | mV     | 192                                                                                                 |                         |               |                                                     |                |
| Line Regulation               | mV     | 120                                                                                                 |                         |               |                                                     |                |
| Ripple/Noise (0-60°C)         | mV     | 240                                                                                                 |                         |               |                                                     |                |
| AC Input Voltage & Frequency  | -      | 85-132/170-265VAC, 47-63Hz Auto select                                                              |                         |               | 85-265VAC (47-63Hz)<br>or 120-370VDC <sup>(1)</sup> |                |
| Input Current 100/230VAC      | A      | 1.7/0.8                                                                                             | 2.3/1.2                 | 2.4/1.3       | 2.3/1.0                                             | 3.0/1.3        |
| Efficiency 100/230VAC         | %      | 81/83                                                                                               | 82/85                   | 83/85         | 84/87                                               | 82/86          |
| Power Factor                  | -      | Meets EN61000-3-2 (DLP180, 240: >0.95)                                                              |                         |               |                                                     |                |
| Inrush Current(Typ)100/230VAC | A      | 20/45                                                                                               |                         |               |                                                     |                |
| Leakage Current               | mA     | Less than 0.75                                                                                      |                         |               |                                                     |                |
| Hold-up Time 100/230VAC       | ms     | 20/30 (Semi F47 Compliance, DLP 180 & 240 only)                                                     |                         |               |                                                     |                |
| Overcurrent Protection        | -      | >105%,Fold Back                                                                                     | >105%, Constant Current |               |                                                     |                |
| Overvoltage Protection        | -      | 30-35V, latching, cycle AC line to reset                                                            |                         |               |                                                     |                |
| LED Indicators                | -      | Green LED = DC ok Red LED = overcurrent                                                             |                         |               |                                                     |                |
| Operating Temperature (2)     | °C     | Convection cooled, -10°C to 60°C, derate linearly to 60% load from 50°C to 60°C                     |                         |               |                                                     |                |
| Storage Temperature           | °C     | -30°C ~ +85°C                                                                                       |                         |               |                                                     |                |
| Humidity (Non-Condensing)     | %RH    | 30-90% operating 10-95% non operating                                                               |                         |               |                                                     |                |
| Withstand Voltage             | -      | Input - Ground 2kVAC, Input to Output 3kVAC, Output - Ground 500VAC                                 |                         |               |                                                     |                |
| Vibration                     | -      | 9.8m/s <sup>2</sup> (1.0G) at DIN rail; (10-55Hz: 9.8m/s <sup>2</sup> Constant, X,Y, Z each 1 hour) |                         |               |                                                     |                |
| Shock                         | -      | 196m/s <sup>2</sup> (20G)                                                                           |                         |               |                                                     |                |
| Safety Agency Approvals       | -      | UL508, IEC/UL/CSA/EN62368-1, 60950-1, EN50178 Cat III (Pri), CE Mark                                |                         |               |                                                     |                |
| Conducted EMI                 | -      | FCC-B, EN55011/EN55022-B, VCCI-B; Meets IEC61000-4-1                                                |                         |               |                                                     |                |
| Radiated EMI                  | -      | EN55011/EN55022-B, FCC-Class B, VCCI-B                                                              |                         |               |                                                     |                |
| ESD                           | -      | IEC61000-4-2 ±10kV (Air), ±5kV (Contact)                                                            |                         |               |                                                     |                |
| Radiated RFI                  | -      | IEC61000-4-3 80-1000MHz, 12V/m 80% AM 1kHz                                                          |                         |               |                                                     |                |
| Fast Transient Burst          | -      | IEC61000-4-4 2.4kV 5kHz                                                                             |                         |               |                                                     |                |
| Lightning Surge               | -      | IEC61000-4-5 4.4kV, 1.2x50µs (Common Mode) 2.4kV 1.2x50µs (Normal)                                  |                         |               |                                                     |                |
| Conducted RFI                 | -      | IEC61000-4-6 150kHz-80MHz, 12V, 80% AM 1kHz                                                         |                         |               |                                                     |                |
| Magnetic Field                | -      | IEC61000-4-8 36A/m                                                                                  |                         |               |                                                     |                |
| Voltage Dips                  | -      | IEC61000-4-11 70% 10ms, 40% 100ms, 0% 5s                                                            |                         |               |                                                     |                |
| Size                          | mm     | 50 x 97 x 110                                                                                       | 60 x 97 x 110           | 60 x 97 x 110 | 80 x 97 x 110                                       | 120 x 97 x 110 |
| Weight                        | g      | 470                                                                                                 | 540                     | 540           | 780                                                 | 1000           |
| Warranty                      | yrs    | 3                                                                                                   |                         |               |                                                     |                |

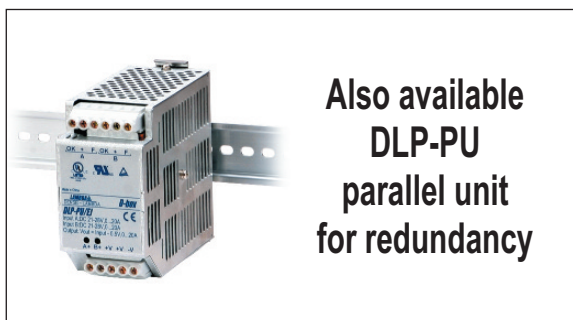
Outline Drawing DLP75 Series



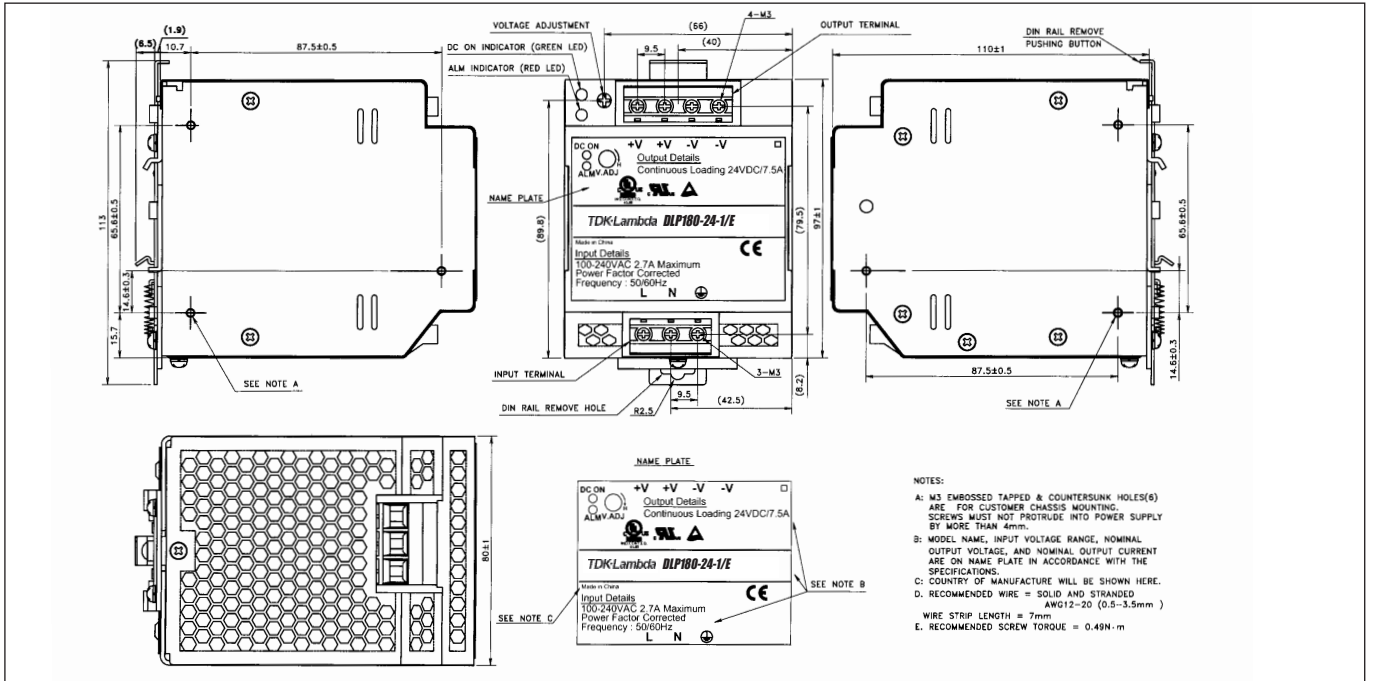
Outline Drawing DLP100/120 Series



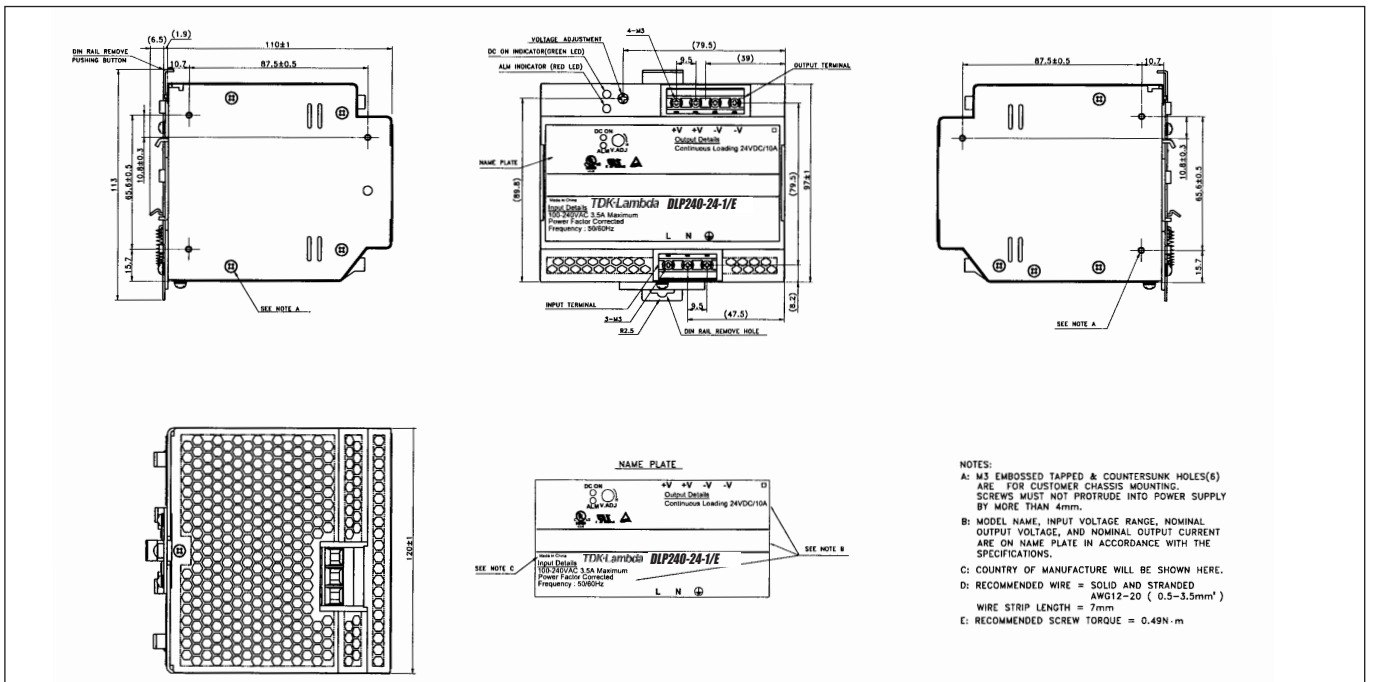
- Notes:**
- (1) DC input is not safety approved
  - (2) DLP240-24-1/E: 170-265VAC: -10°C~+70°C, derated linearly to 60% load from 50° to 70°C.



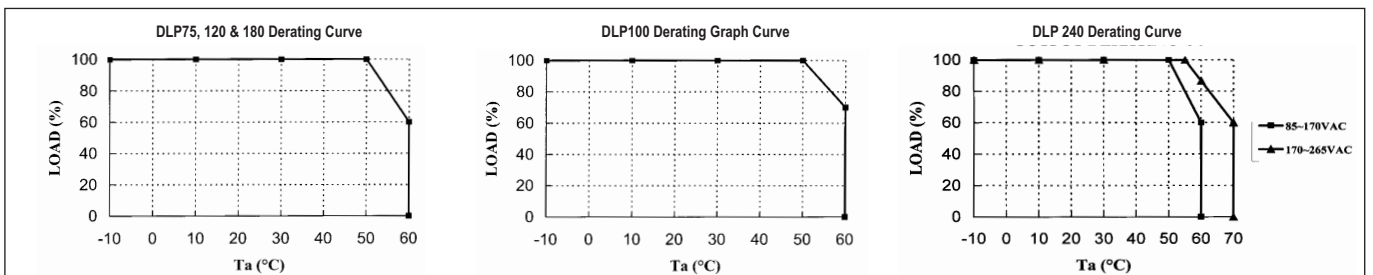
## Outline Drawing DLP180 Series



## Outline Drawing DLP240 Series



## Derating Curve DLP





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