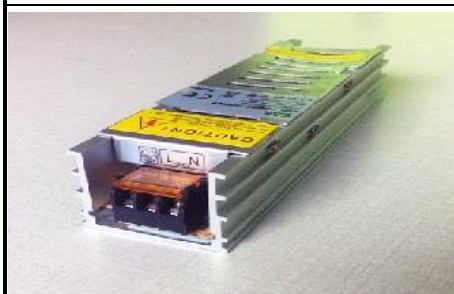


**Thelemontree,S.L.**  
**TECHNICAL DATA SHEET**

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**TLT-NL250-W1V12/24**



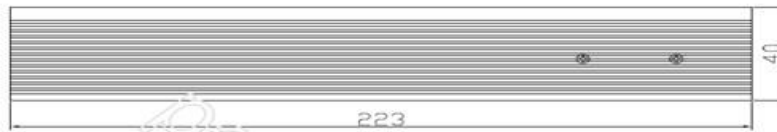
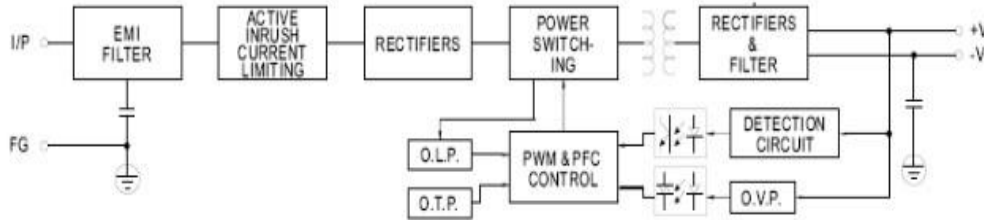
- 100~240V AC input
- 100% full load burn-in test
- Built-in EMI filter with tiny ripple
- Protection: OTP, OLP,OVP,SCP
- 3 year warranty

|            | Product                   | TLT-NL250-W1V12  | TLT-NL250-W1V24 |
|------------|---------------------------|--|-----------------|
| Output     | Rated Voltage (V)         | 12   | 24              |
|            | Floating Voltage (V)      | <12.6  | <25.2           |
|            | Output Voltage Tolerance  | 12V±2%   | 24V±2%          |
|            | Rate Current (A)          | 20,8   | 10,4            |
|            | Rate Power(W)             | 250  | 250             |
|            | Max. output power (W)     | 255  | 265             |
|            | Current ripple            | ≤120mVp-p  | ≤120mVp-p       |
|            | PFC                       | >0.95  | >0.95           |
| Input      | Input voltage range (V)   | AC 110~240V; 47Hz~63Hz; 20A/40AC 230V                                      |                 |
|            | Input AC (A)              | 2.33A/120V ~ 1.15A/230V  |                 |
|            | Efficiency                | >92%   | 92%             |
|            | Impact current (A)        | 50A  |                 |
|            | Start, Rise, Hold-up time | 100ms,50ms,20ms  |                 |
|            | Quiescent current         | <50mA/240VAC   |                 |
| Protection | OLP                       | 105%~150% of rated power, hiccup model, auto-recovery                      |                 |
|            | OVP                       | over Max. Voltage, hiccup, auto recovery                                   |                 |
|            | OTP                       | ≥85°C, auto recovery   |                 |
|            | SCP                       | >3 times short circuit, auto recovery                                      |                 |
| Ambiant    | Working Temp. & humidity  | "-20°C~60°C, 20%~90%RH   |                 |
|            | Storage temp. & humidity  | "-40°C~85°C, 10%~95%RH   |                 |
|            | Withstand voltage         | I/P-O/P: 1.5KVAC/1min,<br>I/P-F/G: 1.5KVAC/1min,<br>O/P-F/G: 0.5KVAC/1min, |                 |
| Safety     | Safety standard           | GB4943 ;IEC60950-1; EN60950-1  |                 |
|            | EMC standard              | EN55022 CLASS A; GB9254  |                 |

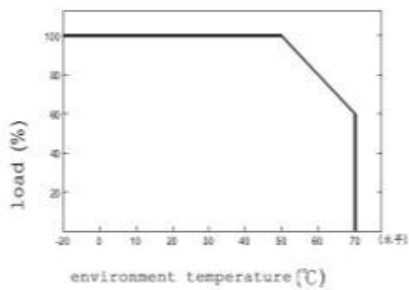
### Mechanical Specification

| Pin No. | Assignment | Pin No. | Assignment  | Demension                  |           |
|---------|------------|---------|-------------|----------------------------|-----------|
| 1       | AC/L       | 4       | DC OUTPUT-V | <b>225mm*70mm*40mm/pcs</b> |           |
| 2       | AC/N       | 5       | DC OUTPUT+V |                            | 0.7kg/pcs |
| 3       | FG         |         |             |                            |           |

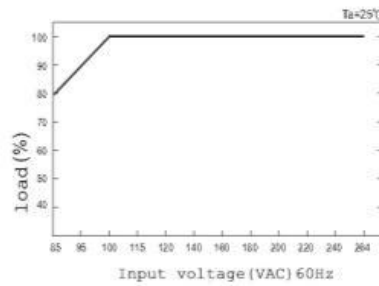
#### 方框图



Derating Curve



Static Characteristics(12V)



#### REMARKS:

- 1, The above mentioned data were measured at 230VAC input and 25°C.
- 2, Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3, Cut the AC input before checking any mal-phenomenons.
- 4, Make sure the INPUT&OUPUT were in right situation before connected to power supply.
- 5, Be ware of high power pressure may caused by short circuit when installing metal casing products.
- 6, Please contact us at [comercial@thelemon-tree.es](mailto:comercial@thelemon-tree.es) for further solution if any unforeseeable problem happens.