

Features

- Class I Power Supply
- Rated Input Voltage: 100-240V AC
- Complies with the EMC EN 55035/EN 55032 Class B conducted emission standards
- The maximum operating temperature can reach 70°C
- Overvoltage Category III
- Low no-load power consumption, with no-load power consumption ≤ 0.5W
- Short-Circuit, Overvoltage and Overload Protection
- Designed for Service Life, 3-Year Warranty



Applications

Industrial control system, industrial equipment, power system, rail transportation, lighting system

Model list

| Model No.      | Input Voltage | Power max. | Output Voltage | Output Current max. | Efficiency typ. | Ripple Voltage | Voltage ADJ. |
|----------------|---------------|------------|----------------|---------------------|-----------------|----------------|--------------|
| DL-75W-V12-EXL | 100-240Vac    | 75W        | 12Vdc          | 6.25A               | 88%             | 240mV          | ±10%         |
| DL-75W-V15-EXL | 100-240Vac    | 75W        | 15Vdc          | 5A                  | 88%             | 240mV          | ±10%         |
| DL-75W-V24-EXL | 100-240Vac    | 75W        | 24Vdc          | 3.125A              | 89%             | 240mV          | ±10%         |
| DL-75W-V36-EXL | 100-240Vac    | 75W        | 36Vdc          | 2.08A               | 89%             | 360mV          | ±10%         |
| DL-75W-V48-EXL | 100-240Vac    | 75W        | 48Vdc          | 1.56A               | 89%             | 360mV          | ±10%         |

Remark:

1. The above parameters are tested under the following conditions: Ta = 25°C, 230Vac input, and after 30 minutes of full load operation.
2. Ripple and noise measurement method: use a 12" twisted-pair wire terminated with 0.1μF & 47μF parallel capacitor, and measured at 20MHz bandwidth.

## Input characteristics

| Parameter             | Min.          | Typ.    | Max.          | Remark                    |
|-----------------------|---------------|---------|---------------|---------------------------|
| Rated input voltage   | 100Vac/140Vdc | 230Vac  | 240Vac/330Vdc | -                         |
| Input voltage range   | 90Vac         | -       | 264Vac        | -                         |
| Rated frequency       | 47Hz          | 50/60Hz | 63Hz          | -                         |
| Power factor          | -             | >0.5    | -             | 100% load, 230Vac         |
| T.H.D.                | -             | N/A     | -             | -                         |
| Input current/100Vac  | -             | -       | 1.7A          | 100% load, 100Vac         |
| Inrush current/230Vac | -             | -       | 90A           | 230Vac, cold start (25°C) |
| Leakage current       | -             | -       | 0.75mA        | RMS Max.                  |

## Output characteristics

| Parameter        | Min. | Typ. | Max.       | Remark             |
|------------------|------|------|------------|--------------------|
| Output tolerance | -    | ±1%  | -          | 0-100% load        |
| Line regulation  | -    | ±1%  | -          | Rated load         |
| Load regulation  | -    | ±1%  | -          | @230Vac            |
| Setup/Rise Time  | -    | -    | 500ms/30ms | @230Vac            |
| Hold up time     | 16ms | -    | -          | 230Vac, rated load |

## Protection

| Function                        | Description                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Output Overload Protection      | 1.4-1.8 times the rated output power; hiccup restart mode, which enables automatic recovery after the abnormal load condition is removed. |
| Output Short-Circuit Protection | Yes; Hiccup Mode, which can automatically recover after the abnormal condition is removed                                                 |
| Output Overvoltage Protection   | Yes; the output voltage will shut down when it exceeds 1.08-1.2 times the operating voltage.                                              |

## Environmental

| Environmental Categories         | Parameter                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated working temperature        | -40 ~ +50°C@100-240Vac                                                                                                                                                         |
| Max. operating temperature range | -40 ~ 70°C; When the operating temperature exceeds 50°C, the power will be reduced by 2% for per 1° C increase in temperature. please refer to the derating curve for details. |
| Working humidity                 | 20 ~ 90% RH, non-condensing                                                                                                                                                    |
| Storage temperature, humidity    | -30~+85°C, 10 ~ 95% RH non-condensing                                                                                                                                          |
| Vibration                        | 10 ~ 500Hz, 5G 12min/cycle, 72 min, each along X, Y, Z axes                                                                                                                    |
| MTBF                             | 230Khrs min. MIL-HDBK-217F (Ta=25°C)                                                                                                                                           |
| Lifetime                         | 30000 hours@230Vac, ambient temperature 20°C, please refer to "Lifetime/ Ambient temperature curve"                                                                            |

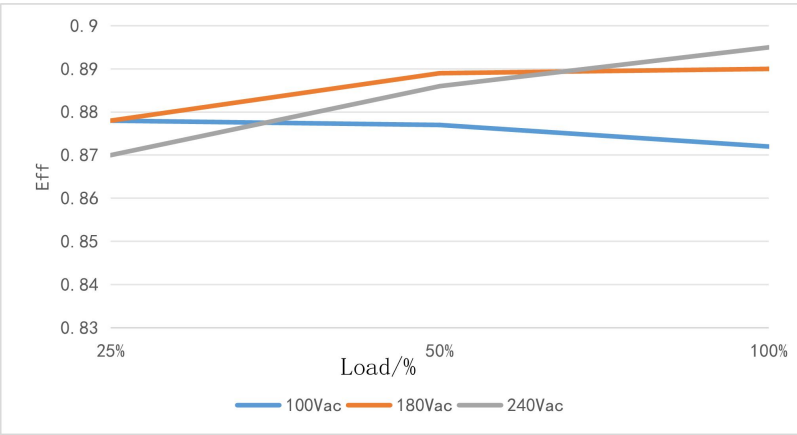
## Safety and EMC

| Safety categories     | Standard                                                                                                                                |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Safety                | Compliance to UL62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,GB 4943.1                                          |
| EMC                   | EMI BS EN/EN55032, EN55035, Class B                                                                                                     |
|                       | Harmonic Current BS EN/EN 61000-3-2 Class A                                                                                             |
|                       | ESD BS EN/EN 61000-4-2                                                                                                                  |
|                       | EFT/Burst BS EN/EN 61000-4-4                                                                                                            |
| Surge protection      | Differential mode L-N $\pm$ 2KV (2 $\Omega$ ), common mode L, N-G $\pm$ 4 KV (12 $\Omega$ ) Harmonic Current Refer to IEC61000-4-5 2014 |
| Withstand voltage     | I/P-O/P:4KVac I/P-PE :2KVac O/P-PE: 1.25KVac                                                                                            |
| Insulation resistance | I/P-PE:100M $\Omega$ / 500VDC; I/P-O/P:100M $\Omega$ / 500Vdc / 25°C/ 70% RH                                                            |

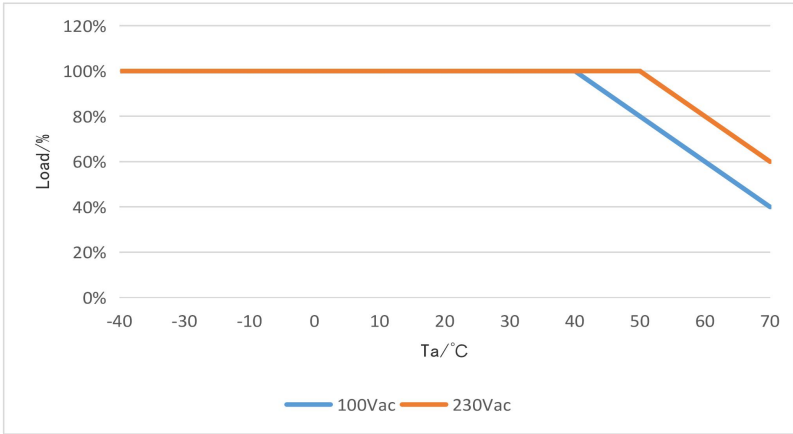
Note: The power supply is considered a component which will be installed into the terminal equipment. The EMC is affected by the entire equipment. The terminal equipment must be reconfirmed to meet the EMC directives.

Parametric curves

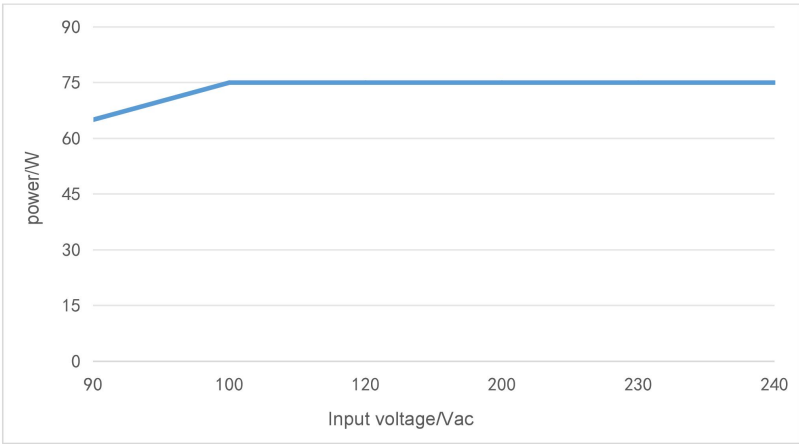
Power/ Efficiency curve



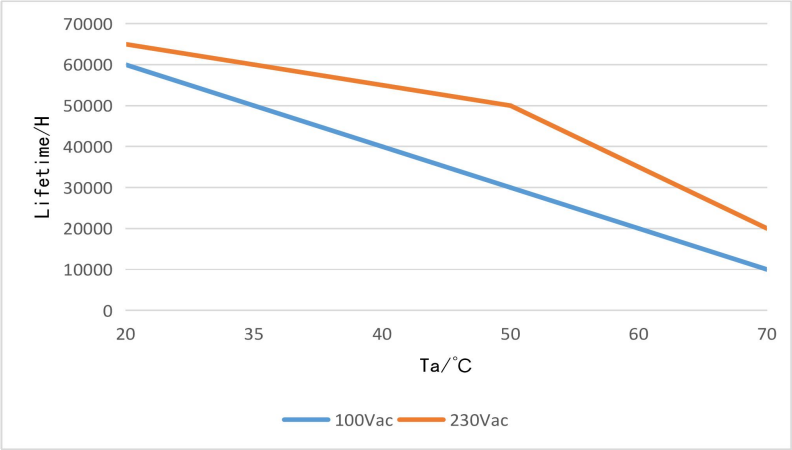
Power/ Ambient temperature



Power/ Input voltage

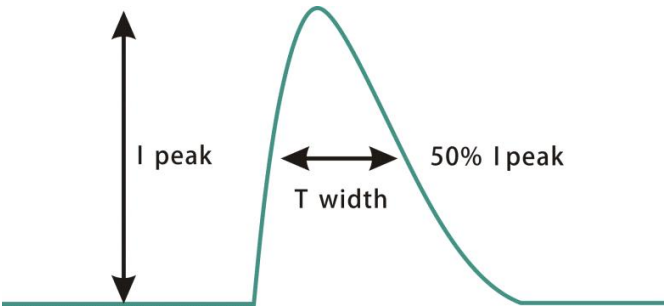


Lifetime/ Ambient temperature



Inrush current

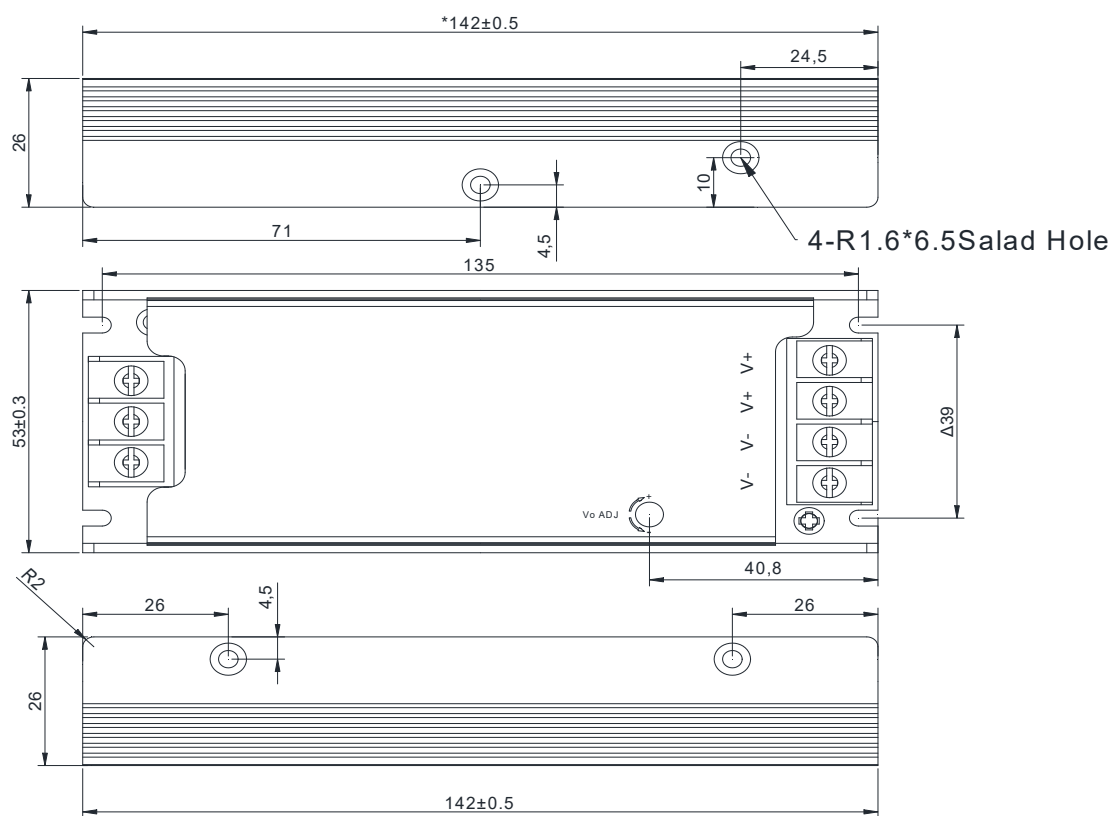
| Input voltage | Peak current | T (@50% peak current) |
|---------------|--------------|-----------------------|
| 100ac         | 55.6A        | 186us                 |
| 230Vac        | 60.85A       | 198us                 |
| 264Vac        | 71.8A        | 208us                 |



Mechanical specification

Weight

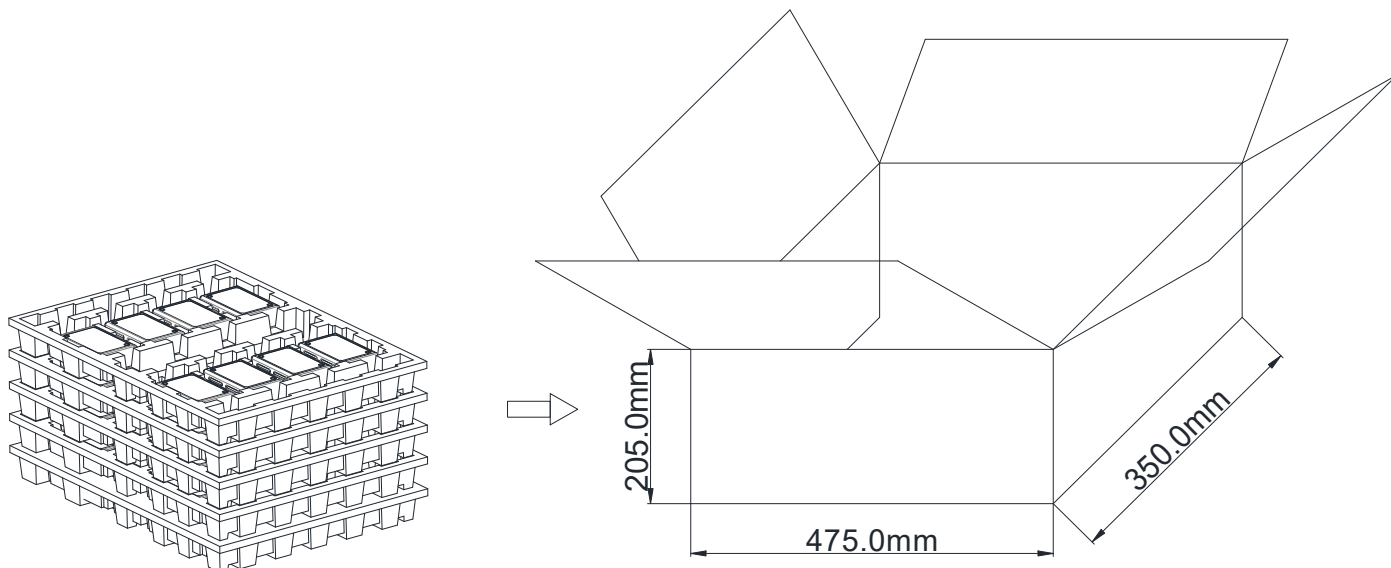
|        |      |
|--------|------|
| Weight | 185g |
|--------|------|



## Packaging

packaging (mm)

L475mm\*W350mm\*H205mm

**NOTE:**

1. Each box has 5 layers, with 8 pieces on each layer, totaling 40 pieces per box.
2. According to the certificates obtained by LED DRIVER, LED DRIVER with English labels are sold in Europe, America and India.
3. LED driver power supplies with Chinese labels are only for the Chinese market.