

### Typical Performance

#### FEATURES

- Wide Input voltage range (2:1)
- Typical Efficiency:82%
- Switching frequency: 200KHz
- Short circuit protection,Self-furbish,input over voltage protection
- Input-output isolate 500VDC
- Metal case, Low Output Ripple
- Chassis mount
- Silicone filling and sealing, dustproof,moistureproof, high reliability



3-Years Product Warranty

**Technology parameter** Test condition:General Nominal Line,Tc=25℃, Rated resistant load unless other wisespecified

| Input Feature      | Min | Nom | Max | Notes |
|--------------------|-----|-----|-----|-------|
| Input voltage(Vdc) | 9   | 12  | 18  | W 2:1 |
|                    | 18  | 24  | 36  | W 2:1 |
|                    | 36  | 48  | 72  | W 2:1 |
|                    | 72  | 110 | 144 | W 2:1 |
|                    | 9   | 18  | 36  | W 4:1 |

#### Output Feature

|                         |  |                                                 |       |
|-------------------------|--|-------------------------------------------------|-------|
| Voltage accuracy        |  |                                                 | ±1.0% |
| Line regulation         |  |                                                 | ±0.2% |
| Load regulation         |  |                                                 | ±0.5% |
| Over current protection |  | 120%~200% ,output will be turn off,self-recover |       |
| Ripple and noise        |  |                                                 | 80mV  |

#### General Feature

|                     |  |  |                |
|---------------------|--|--|----------------|
| Efficiency          |  |  | 82% typical    |
| Switching frequency |  |  | 200KHz typical |

|                         |                       |                  |                                       |
|-------------------------|-----------------------|------------------|---------------------------------------|
| Operating temperature   | Free air              | Industrial level | -25℃ ~ +55℃                           |
| Storage temperature     |                       |                  | -40℃ ~ +125℃                          |
| Relative humidity       |                       |                  | 10%~90%                               |
| case material           |                       |                  | Metal case                            |
| Isolation Voltage       | Input-Output          |                  | 1500VDC                               |
|                         | Input-Case            |                  | 500VDC                                |
|                         | Output-Case           |                  | 500VDC                                |
| Temperature Coefficient |                       |                  | ≤±0.05%/℃                             |
| Cooling                 |                       |                  | Natural Convection,or<br>add heatsink |
| MTBF                    | 5X10 <sup>5</sup> Hrs |                  |                                       |

### Product Nomination Method

|         |                                     |   |                                                                                       |  |  |  |  |
|---------|-------------------------------------|---|---------------------------------------------------------------------------------------|--|--|--|--|
| example | L D 50 E - 48 S 05<br>① ② ③ ④ ⑤ ⑥ ⑦ |   |                                                                                       |  |  |  |  |
| ①       | Wide input voltage: 2: 1            | ⑥ | S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output |  |  |  |  |
| ②       | Power adaptation mode: D (DC-DC)    | ⑦ |                                                                                       |  |  |  |  |
| ③       | Output power(W)                     |   |                                                                                       |  |  |  |  |
| ④       | Vehicle power supply                |   | output voltage                                                                        |  |  |  |  |
| ⑤       | Normal input voltage                |   |                                                                                       |  |  |  |  |

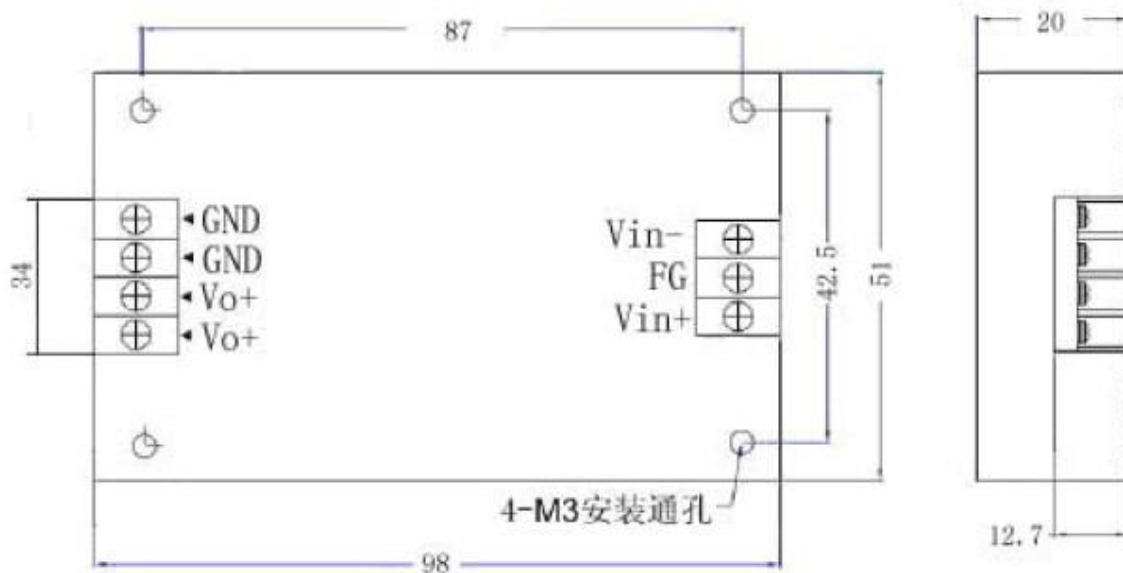
### Product Program

| PART #      | Input voltage range | Output voltage / current |        |      |        |     |    |
|-------------|---------------------|--------------------------|--------|------|--------|-----|----|
|             |                     | VO1                      |        | VO2  |        | VO3 |    |
|             |                     | V                        | mA     | V    | mA     | V   | mA |
| LD30E-12S05 | 12V (9~18V)         | 5V                       | 6000mA |      |        |     |    |
| LD30E-12S12 |                     | 12V                      | 2500mA |      |        |     |    |
| LD30E-12S15 |                     | 15V                      | 2000mA |      |        |     |    |
| LD30E-12S24 |                     | 24V                      | 1250mA |      |        |     |    |
| LD30E-12S28 |                     | 28V                      | 1000mA |      |        |     |    |
| LD30E-12S48 |                     | 48V                      | 625mA  |      |        |     |    |
| LD30E-12D05 |                     | +5V                      | 3000mA | -5V  | 3000mA |     |    |
| LD30E-12D12 |                     | +12V                     | 1250mA | -12V | 1250mA |     |    |
| LD30E-12D15 |                     | +15V                     | 1000mA | -15V | 1000mA |     |    |

|                |             |      |        |      |        |  |  |
|----------------|-------------|------|--------|------|--------|--|--|
| LD30E-12D24    |             | +24V | 625mA  | -24V | 625mA  |  |  |
| LD30E-12D28    |             | +28V | 536mA  | -28V | 536mA  |  |  |
| LD30E-12D48    |             | +48V | 313mA  | -48V | 313mA  |  |  |
| LD30E-12S05S12 |             | +5V  | 2000mA | +12V | 1667mA |  |  |
| LD30E-12S05S24 |             | +5V  | 3000mA | +24V | 625mA  |  |  |
| LD30E-24S05    | 24V(18~36V) | 5V   | 6000mA |      |        |  |  |
| LD30E-24S12    |             | 12V  | 2500mA |      |        |  |  |
| LD30E-24S15    |             | 15V  | 2000mA |      |        |  |  |
| LD30E-24S24    |             | 24V  | 1250mA |      |        |  |  |
| LD30E-24S28    |             | 28V  | 1000mA |      |        |  |  |
| LD30E-24S48    |             | 48V  | 625mA  |      |        |  |  |
| LD30E-24D05    |             | +5V  | 3000mA | -5V  | 3000mA |  |  |
| LD30E-24D12    |             | +12V | 1250mA | -12V | 1250mA |  |  |
| LD30E-24D15    |             | +15V | 1000mA | -15V | 1000mA |  |  |
| LD30E-24D24    |             | +24V | 625mA  | -24V | 625mA  |  |  |
| LD30E-24D28    |             | +28V | 536mA  | -28V | 536mA  |  |  |
| LD30E-24D48    |             | +48V | 313mA  | -48V | 313mA  |  |  |
| LD30E-24S05S12 |             | +5V  | 2000mA | +12V | 1667mA |  |  |
| LD30E-24S05S24 |             | +5V  | 3000mA | +24V | 625mA  |  |  |
| LD30E-48S05    | 48V(36~72V) | 5V   | 6000mA |      |        |  |  |
| LD30E-48S12    |             | 12V  | 2500mA |      |        |  |  |
| LD30E-48S15    |             | 15V  | 2000mA |      |        |  |  |
| LD30E-48S24    |             | 24V  | 1250mA |      |        |  |  |
| LD30E-48S28    |             | 28V  | 1000mA |      |        |  |  |
| LD30E-48S48    |             | 48V  | 625mA  |      |        |  |  |
| LD30E-48D05    |             | +5V  | 3000mA | -5V  | 3000mA |  |  |
| LD30E-48D12    |             | +12V | 1250mA | -12V | 1250mA |  |  |
| LD30E-48D15    |             | +15V | 1000mA | -15V | 1000mA |  |  |
| LD30E-48D24    |             | +24V | 625mA  | -24V | 625mA  |  |  |
| LD30E-48D28    |             | +28V | 536mA  | -28V | 536mA  |  |  |
| LD30E-48D48    |             | +48V | 313mA  | -48V | 313mA  |  |  |
| LD30E-48S05S12 |             | +5V  | 2000mA | +12V | 1667mA |  |  |

|                 |               |      |        |      |        |  |  |
|-----------------|---------------|------|--------|------|--------|--|--|
| LD30E-48S05S24  |               | +5V  | 3000mA | +24V | 625mA  |  |  |
| LD30E-110S05    | 110V(72~144V) | 5V   | 6000mA |      |        |  |  |
| LD30E-110S12    |               | 12V  | 2500mA |      |        |  |  |
| LD30E-110S15    |               | 15V  | 2000mA |      |        |  |  |
| LD30E-110S24    |               | 24V  | 1250mA |      |        |  |  |
| LD30E-110S28    |               | 28V  | 1000mA |      |        |  |  |
| LD30E-110S48    |               | 48V  | 625mA  |      |        |  |  |
| LD30E-110D05    |               | +5V  | 3000mA | -5V  | 3000mA |  |  |
| LD30E-110D12    |               | +12V | 1250mA | -12V | 1250mA |  |  |
| LD30E-110D15    |               | +15V | 1000mA | -15V | 1000mA |  |  |
| LD30E-110D24    |               | +24V | 625mA  | -24V | 625mA  |  |  |
| LD30E-110D28    |               | +28V | 536mA  | -28V | 536mA  |  |  |
| LD30E-110D48    |               | +48V | 313mA  | -48V | 313mA  |  |  |
| LD30E-110S05S12 |               | +5V  | 2000mA | +12V | 1667mA |  |  |
| LD30E-110S05S24 |               | +5V  | 3000mA | +24V | 625mA  |  |  |

### Mechanical Dimension



BOTTOM VIEW

### Mechanical Data

| WATT | L x W x H  | Packing No. |
|------|------------|-------------|
| 30W  | 98*51*20mm |             |

\*Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.

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