

# Блок питания ARJ-GT140350 (50W, 240-360mA, PFC)

## 1. DESCRIPTION:

This product specification is for LED constant current power supply,  
Model: ARJ-GT140350

## 2. OUTPUT PARAMETER:

### 2.1 Output Power:

Full Load Voltage	Output Current	Output Power
+140Vdc	0.24-0.36A	50W

### 2.2 Load Parameter/ Adjustable rate:

Min No-load Voltage	Max No-load Voltage	Load Voltage Output Range	Max current
158V	168V	50-140V	0.36A

### 2.3 Ripple& Noise:

Test Condition: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 4.7uF electrolysis capacitor.  
(test under the condition of rated input and rated output)

Voltage	Max Ripple&Noise
+140Vdc	1500mVp-p

### 2.4 Turn on Delay Time:

1.5S max. @ Input 170Vac and Output full Load

### 2.5 Rise Time:

1000mS max. @ Input 170Vac and full load.

### 2.6 Hold-Up Time:

2000mS min. @ Input 170Vac and full load.

### 2.7 Efficiency:

Input Voltage : 170Vac / 220Vac

Output Voltage	Output Current	Efficiency	Power factor
140Vdc	0.36A	89%	0.95
50Vdc	0.36A	86%	0.80

### 2.8 Output Current tolerance:

Output Current: 0.36A      Constant Current tolerance:  $\pm 3\%$

### 2.9 Hi-pot test:

Primary to Secondary:	High Voltage 1500V	5mA	60S
Primary to GND:	High Voltage 1500V	5mA	60S

## 3. PROTECTION:

### 3.1 Short Circuit Protection:

Self-recovery when the fault condition is removed

### 3.2 Output Over-Output Current Protection:

When the output currents is over 130%, Return to normal status when Output Limit current to get right.

### 3.3 Output Over-Voltage Protection:

When the output voltage is over rated, return to normal status when fault condition is removed

## 4. INPUT PARAMETER:

- 4.1 Input Voltage:
  - Rated input voltage range: 180-240Vac
  - Adjustable range: 170-264Vac
- 4.2 Input Frequency.
  - Rated frequency: 50-60Hz
  - Adjustable frequency: 47-63Hz
- 4.3 Input Current:
  - When Input AC voltage is at 170Vac, output voltage is full load, the maximum input AC current is 0.4A
- 4.4 Inrush Current:
  - When output rated load, environment Temp. 25 C, Input voltage 240Vac,
  - Max. inrush current (cold start) is 30A.
- 4.5 First times leakage current:
  - Input voltage 220Vac, Max. Leakage current 0.25mA

## 5. ENVIRONMENT REQUIREMENTS::

- 5.1 Working Temp.:
  - 30 C~ 50 C, Full load, normal working
- 5.2 Storage Temp:
  - 40 C~ 85 C.
- 5.3 Humidity:
  - 5% (0 C)~90% (40 C), 72Hrs, Full load, normal working
- 5.4 Vibration:
  - 1. Operating: IEC 721-3-3 3M3
    - 5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/s<sup>2</sup>)
  - 2. Transportation: IEC721-3-22MS
    - 5-9Hz, A=3.5mm
    - 9~200Hz, Acceleration=5m/S<sup>2</sup>
    - 200~500Hz, Acceleration=15m/S<sup>2</sup>
  - 3. Vibration:
    - Permanent damage cannot be exist during testing.
    - It can be self-recovery to original condition after turn-on & turn off test.
- 5.5 Drop test:
  - 1 corner, 3 edges, 6 surfaces
  - Height: 76cm

## 6. STRUCTURE:

- 6.1 Housing (Shell):
  - Size: 225\*30\*28\*mm
- 6.2 Input wires:
  - 3 wires: Brown color L, Blue color N, Green/Yellow color GND
- 6.3 Output wires:
  - 2 wires: Red +, Black -.

## 7. PACKAGE:

Box