

50S Series



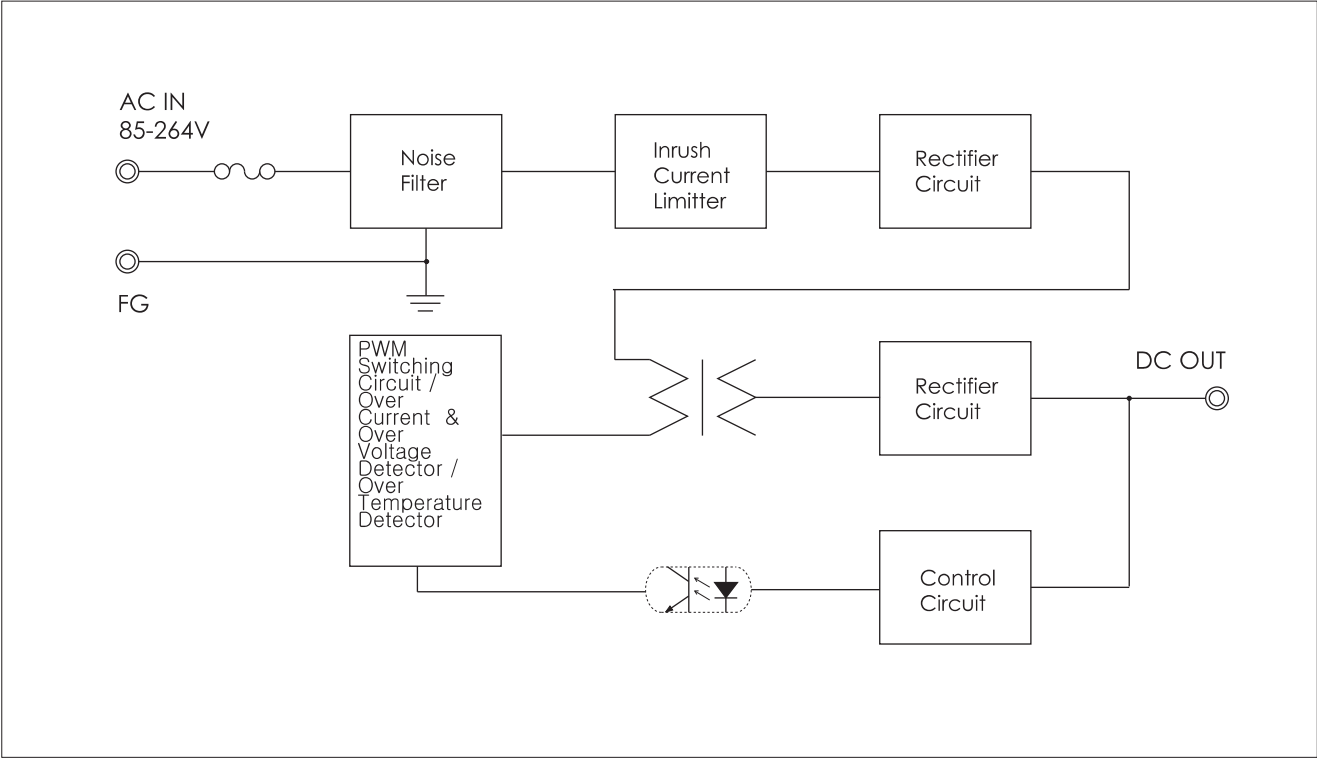
50W 1-Channel

- **5V10A/9V5.5A/12V4.1A/15V3.3A/24V2A/36V1.3A/48V1A Output**
- **Wide Input Voltage Range (AC85-264V)**
- **Built-in Inrush Current Limiter, Over Current Protector and Over Voltage Protector**
- **Over Temperature Protection**
- **Auto-Restart Mode**
- **Approved by EN 60950-1 C E**

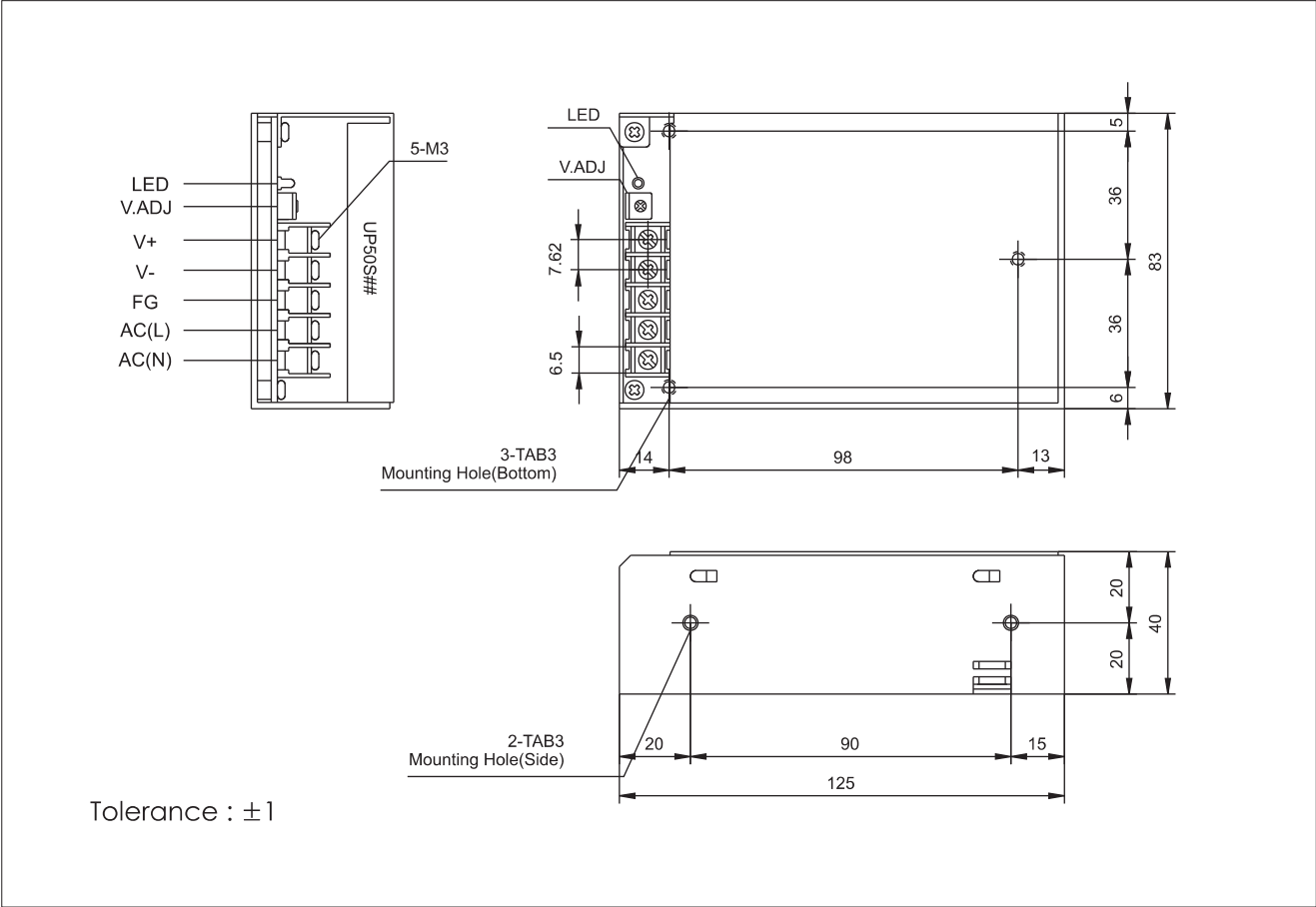
SPECIFICATIONS

| Item | | UP50S05 | UP50S09 | UP50S12 | UP50S15 | UP50S24 | UP50S36 | UP50S48 |
|---------------------|------------------------------|---|---------|---------|---------|---------|--|---------|
| INPUT | VOLTAGE | AC85~264V | | | | | 1.2A typ (ACIN 110V, lo=100%) 0.6A typ (ACIN 220V, lo=100%) | |
| | FREQUENCY | 50/60Hz(47~63Hz) | | | | | | |
| | EFFICIENCY | 70% Typ | 75% Typ | 80% Typ | 80% Typ | 83% Typ | 83% Typ | 85% Typ |
| | INRUSH CURRENT | 20A Typ(ACIN 110V, lo=100%)/40A Typ(ACIN 220V, lo=100%) at cold start | | | | | | |
| OUTPUT | VOLTAGE [V] | 5 | 9 | 12 | 15 | 24 | 36 | 48 |
| | CURRENT [A] | 10.0 | 5.5 | 4.1 | 3.3 | 2.0 | 1.3 | 1.0 |
| | LINE REGULATION [mV] | 25 Max | 45 Max | 60 Max | 75 Max | 120 Max | 180 Max | 240 Max |
| | LOAD REGULATION [mV] | 50 Max | 90 Max | 120 Max | 150 Max | 240 Max | 360 Max | 480 Max |
| | RIPPLE [mVp-p] | 50 Max | 90 Max | 120 Max | 150 Max | 240 Max | 360 Max | 480 Max |
| | RIPPLE NOISE [mVp-p] | 100 Max | 140 Max | 170 Max | 200 Max | 290 Max | 410 Max | 530 Max |
| | TEMPERATURE DRIFT,0-50℃ [mV] | 50 Max | 90 Max | 120 Max | 150 Max | 240 Max | 360 Max | 480 Max |
| | RISE TIME [msec] | 100 Max (ACIN 85V, lo=100%) | | | | | | |
| HOLDING TIME [msec] | 10 Typ(ACIN 85V, lo=100%) | | | | | | | |
| PROTEC-TION | OVER CURRENT PROTECTION | Works at over 110% of rating and recovers automatically | | | | | | |
| | OVER VOLTAGE PROTECTION | Works at 115~140% of rating | | | | | | |
| ISOLAT-ION | INPUT-OUTPUT | AC3,000V for 1 minute, DC500V 100Mohm (At room temp. & humid.) | | | | | | |
| | INPUT-CASE, FG | AC1,500V for 1 minute, DC500V 100Mohm (At room temp. & humid.) | | | | | | |
| | OUTPUT-CASE | AC500V for 1 minute, DC500V 100Mohm (At room temp. & humid.) | | | | | | |
| ENVIRON-MENT | OPERATING TEMP. & HUMID. | -10~+50℃, 20~90%RH(Non condensing) | | | | | | |
| | STORAGE TEMP. & HUMID. | -20~+75℃, 20~90%RH(Non condensing) | | | | | | |
| | VIBRATION | 10~55Hz at 1G 3 minutes period, 30 minutes along X, Y and Z axis | | | | | | |
| | IMPACT | 10G for 20 msec, Once on each X, Y and Z axis | | | | | | |
| | APPROVALS | CE | CE | CE | CE | CE | | |

BLOCK DIAGRAM

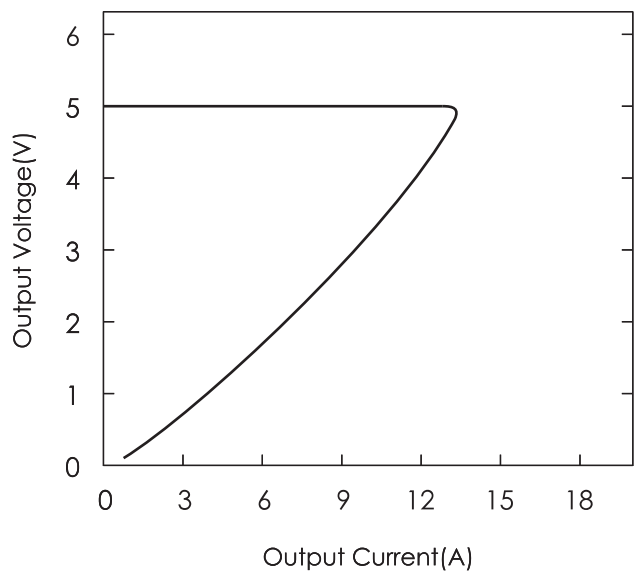


DIMENSIONS(UNITS : MM)

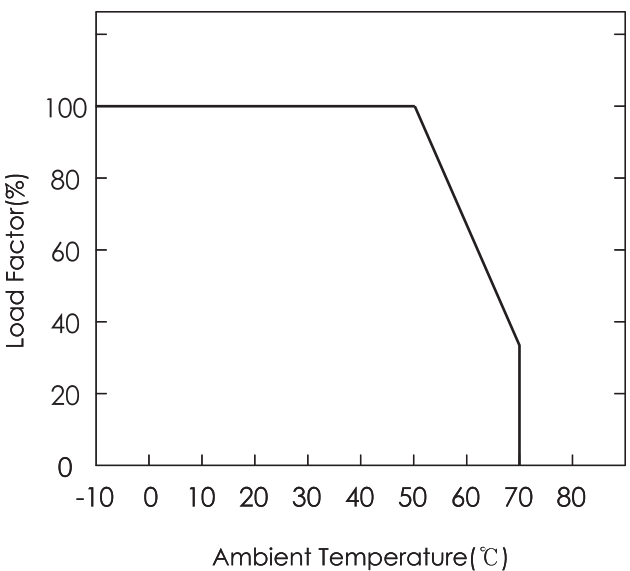


3. 50S/50SN Series(50S05)

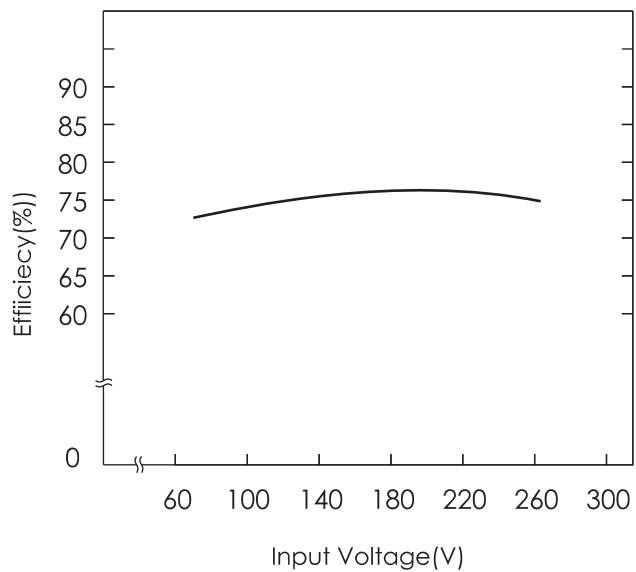
A. OVER CURRENT CHARACTERISTICS



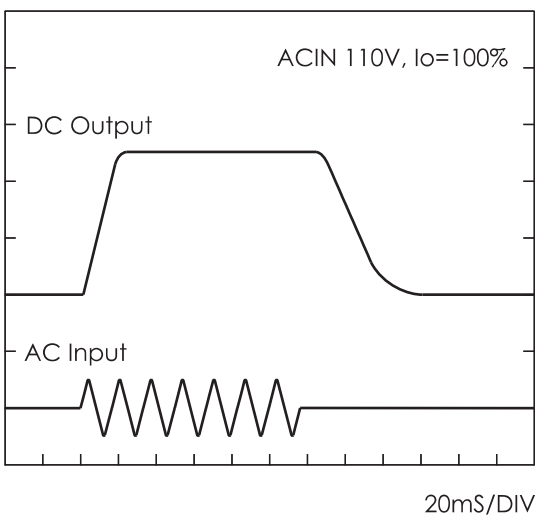
B. DERATING CHARACTERISTICS



C. EFFICIENCY CHARACTERISTICS



D. RISING/FALLING TIME CHARACTERISTICS



BRACKET

| MODEL | APPLICATION | DIMENSIONS(UNIT:mm) |
|-----------|--|---|
| BRACKET-A | 15S Series 30S Series 50S Series 75S Series 100S Series 150S Series 200S Series 220S Series 15D Series 30D Series 50D Series 15T Series 30T Series 50T Series | <p>Technical drawing of Bracket-A. The top view shows a rectangular plate with a total width of 60mm and a total length of 70mm. It features five mounting holes. The first hole is offset by 5mm from the left edge. The distance between the first and second hole is 20mm. The distance between the second and third hole is 5mm. The distance between the third and fourth hole is 10mm. The distance between the fourth and fifth hole is 10mm. The distance between the fifth hole and the right edge is 5mm. The distance between the first and last hole is 60mm. The hole diameters are $\phi 4.5$ for the first and last holes, and $\phi 4$ for the middle three holes. The side view shows a profile with a total height of 10mm, a base thickness of 1.6mm, and a top thickness of 5.5mm.</p> |
| BRACKET-B | 300S Series 400S Series | <p>Technical drawing of Bracket-B. The top view shows a rectangular plate with a total width of 86mm and a total length of 98mm. It features five mounting holes. The first hole is offset by 6mm from the left edge. The distance between the first and second hole is 31.5mm. The distance between the second and third hole is 12.5mm. The distance between the third and fourth hole is 5mm. The distance between the fourth and fifth hole is 12.5mm. The distance between the fifth hole and the right edge is 36.5mm. The distance between the first and last hole is 86mm. The hole diameters are $\phi 5.5$ for the first and last holes, and $\phi 4.2$ for the middle three holes. The side view shows a profile with a total height of 15mm, a base thickness of 1.6mm, and a top thickness of 6.5mm.</p> |
| BRACKET-C | 500S Series 600S Series 650S Series 750S Series 850S Series 1000S Series 1200S Series 1500S Series | <p>Technical drawing of Bracket-C. The top view shows a rectangular plate with a total width of 118mm and a total length of 130mm. It features five mounting holes. The first hole is offset by 6mm from the left edge. The distance between the first and second hole is 21.5mm. The distance between the second and third hole is 13.5mm. The distance between the third and fourth hole is 30mm. The distance between the fourth and fifth hole is 13.5mm. The distance between the fifth hole and the right edge is 21.5mm. The distance between the first and last hole is 118mm. The hole diameters are $\phi 3.5$ for the first and last holes, and $\phi 4.5$ for the middle three holes. The side view shows a profile with a total height of 20mm, a base thickness of 1.6mm, and a top thickness of 6.5mm.</p> |

C E R T I F I C A T E



of Conformity
Low Voltage Directive 73/23/EEC
as last amended by EEC Directive 93/68/EEC

Registration No.: AN 50015627 0001

Report No.: 13000810 001

Holder: Union Elecom Co., Ltd.
34-2, Samjeong-dong, Ojeong-gu
Bucheon, Gyeonggi-do 421-150
Rep. of Korea

Product: Schaltnetzteil
Switching Mode Power Supply

Identification: Type Designations : UP50S**
UP75S**
** = 05, 09, 12, 15 or 24
Serial no. : n.a. (Prototype)

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 73/23/EEC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Cologne, 23.07.2002



Certification Body

U. Röfger
Dipl.-Ing. U. Röfger

TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE