



# MEAN WELL

## SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

## U24S SERIES

- .UNIVERSAL AC INPUT/ FULL RANGE
- .3 POLE AC INLET IEC320-C14
- .SHORT CIRCUIT PROTECTED
- .OVER LOAD PROTECTED
- .OVER VOLTAGE PROTECTED
- .LED INDICATE FOR POWER ON
- .FULLY ENCLOSED PLASTIC CASE
- .APPROVALS:UL/CUL/TUV/CE
- .FULL OUTPUT 3-48VDC SAFETY APPROVED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .OUTPUT CONNECTOR CAN BE SELECTED(OPTION)
- .OEM BRAND WELCOME
- .1 YEAR WARRENTY



| MODEL                     | U24S102-<br>yyy  | U24S103-<br>yyy | U24S104-<br>yyy | U24S105-<br>yyy | U24S106-<br>yyy | U24S107-<br>yyy | U24S108-<br>yyy | U24S109-<br>yyy | U24S110-<br>yyy | U24S111-<br>yyy |
|---------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| DC OUTPUT VOLTAGE         | 5V   | 7.5V            | 9V              | 12V             | 15V             | 18V             | 24V             | 30V             | 36V             | 48V             |
| OUTPUT V. TOLERANCE       | ±5%  | ±5%             | ±5%             | ±3%             | ±3%             | ±3%             | ±2%             | ±2%             | ±2%             | ±2%             |
| OUTPUT RATED CURRENT      | 3A   | 2.66A           | 2.44A           | 2A              | 1.6A            | 1.33A           | 1A              | 0.8A            | 0.66A           | 0.5A            |
| OUTPUT CURRENT RANGE      | 0-3A   | 0-2.66A         | 0-2.44A         | 0-2A            | 0-1.6A          | 0-1.33A         | 0-1A            | 0-0.8A          | 0-0.66A         | 0-0.5A          |
| RIPPLE & NOISE (Vp-p)     | 50m  | 75m             | 90m             | 100m            | 120m            | 120m            | 150m            | 150m            | 180m            | 200m            |
| LINE REGULATION           | ±1%  | ±1%             | ±1%             | ±1%             | ±1%             | ±1%             | ±1%             | ±1%             | ±1%             | ±1%             |
| LOAD REGULATION           | ±5%  | ±5%             | ±5%             | ±3%             | ±3%             | ±3%             | ±2%             | ±2%             | ±2%             | ±2%             |
| DC OUTPUT POWER           | 15W  | 20W             | 22W             | 24W             | 24W             | 24W             | 24W             | 24W             | 23.7W           | 24W             |
| EFFICIENCY                | 67%  | 70%             | 72%             | 74%             | 74%             | 75%             | 77%             | 77%             | 78%             | 78%             |
| DC VOLTAGE ADJ.           | FIXED  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| INPUT VOLTAGE RANGE       | 90-260VAC 47-63Hz  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| AC CURRENT                | 0.7A/230VAC  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| INRUSH CURRENT            | COLD START < 40A PEAK/230VAC   |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| LEAKAGE CURRENT           | <0.75mA/240VAC   |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| OVERLOAD PROTECTION       | HICCUP MODE, AUTO RECOVERY   |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| OVER VOLTAGE PROTECTION   | 110%-145% OF RATED OUTPUT VOLTAGE  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| OVER TEMP. PROTECTION     | -----  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| TEMP. COEFFICIENT         | ±0.03% / °C (0-50°C)   |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| SETUP, RISE, HOLD UP TIME | 800ms, 50ms, 16ms AT FULL LOAD AND 230VAC INPUT  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| VIBRATION                 | 10-500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| WITHSTAND VOLTAGE         | I/P-O/P:3KVAC, I/P-FG:1.5KVAC FOR 1minute.   |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| ISOLATION RESISTANCE      | I/P-O/P, I/P-FG:500VDC / 100M Ohms min.  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| WORKING TEMP., HUMIDITY   | 0°C~+40°C @ 100%LOAD, +70°C @ 60%LOAD, 20%-90% RH  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| STORAGE TEMP., HUMIDITY   | -20°C~+85°C, 10%-95% RH  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| DIMENSION                 | 106*65*30mm (L*W*H)  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| WEIGHT; Q'TY/CARTON       | 0.23Kgs; 50PCS/CARTON  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| SAFETY STANDARDS          | UL1950, CSA22.2, TUV EN60950   |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| EMC STANDARDS             | EN55022, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| LENGTH OF OUTPUT CABLE    | STANDARD CABLE:180cm WITH SPT-1, 18AWG*2C(OPTION)  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| PLUG OF DC OUTPUT         | STANDARD PLUG P2J:2.1¢*5.5¢*11mm, CENTER POSITIVE<br>yyy:TO BE DEFINED BY OUTPUT CABLE AND CONNECTOR |                 |                 |                 |                 |                 |                 |                 |                 |                 |

NOTE :

1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.