



# MEAN WELL

## SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

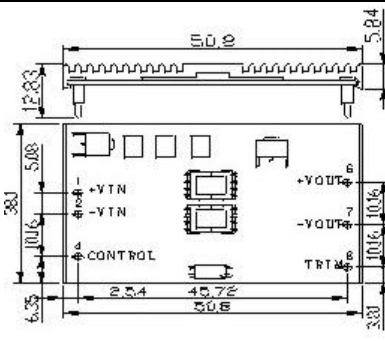
# ASD15H-S SERIES

- 4:1 WIDE INPUT RANGE
- BUILD IN EMI FILTER
- REMOTE ON-OFF CONTROL
- SHORT CIRCUIT PROTECTION
- OVERLOAD, OVER VOLTAGE PROTECTION
- LOW RIPPLE NOISE



| MODEL                              | ASD15H-12S3   | ASD15H-12S5 | ASD15H-12S12 | ASD15H-12S15 | ASD15H-48S3                 | ASD15H-48S5 | ASD15H-48S12 | ASD15H-48S15 |
|------------------------------------|---|-------------|--------------|--------------|-----------------------------|-------------|--------------|--------------|
| DC OUTPUT VOLTAGE                  | 3.3V  | 5V          | 12V          | 15V          | 3.3V                        | 5V          | 12V          | 15V          |
| OUTPUT V. TOLERANCE                | ±2% MAX.  |             |              |              |                             |             |              |              |
| OUTPUT RATED CURRENT               | 3.75A   | 3A          | 1.25A        | 1A           | 3.75A                       | 3A          | 1.25A        | 1A           |
| OUTPUT CURRENT RANGE               | 0.18-3.75A  | 0.15-3A     | 0.06-1.25A   | 0.05-1A      | 0.18-3.75A                  | 0.15-3A     | 0.06-1.25A   | 0.05-1A      |
| RIPPLE & NOISE 25%-Full Load(Vp-p) | 100m  | 75m         | 75m          | 75m          | 100m                        | 75m         | 75m          | 75m          |
| DC OUTPUT POWER                    | 12.37W  | 15W         | 15W          | 15W          | 12.37W                      | 15W         | 15W          | 15W          |
| LINE REGULATION                    | ±1% AT 10%-100% LOAD  |             |              |              |                             |             |              |              |
| LOAD REGULATION                    | ±1% AT 10%-100% LOAD  |             |              |              |                             |             |              |              |
| EFFICIENCY                         | 72%   | 74%         | 80%          | 80%          | 76%                         | 80%         | 83%          | 83%          |
| SWITCHING FREQUENCY                | 450KHz  |             |              |              |                             |             |              |              |
| RATED DC INPUT                     | 12VDC   |             |              |              | 48VDC                       |             |              |              |
| INPUT VOLTAGE RANGE                | 9.2 - 36VDC(50V SURGE 10ms)   |             |              |              | 18 - 72VDC(100V SURGE 10ms) |             |              |              |
| INPUT CURRENT                      | 1.8A/12VDC  |             |              |              | 0.4A/48VDC                  |             |              |              |
| IN/OUT CAPACITANCE                 | 1000pF  |             |              |              |                             |             |              |              |
| SHUTDOWN IDLE CURRENT              | 15mA  |             |              |              |                             |             |              |              |
| ON/OFF CONTROL                     | LOGIC "1" OPEN:ON LOGIC "0" GND:OFF   |             |              |              |                             |             |              |              |
| SHORT CIRCUIT PROTECTION           | CONTINUOUS, AUTO RECOVERY   |             |              |              |                             |             |              |              |
| OVER LOAD PROTECTION               | ABOVE 105%, TYPE: OVER POWER LIMITING RESET:AUTO RECOVERY @                     |             |              |              |                             |             |              |              |
| OVER VOLTAGE PROTECTION            | 170-210%  | 110-150%    | 115-150%     | 115-150%     | 170-210%                    | 110-150%    | 115-150%     | 115-150%     |
| TEMP. COEFFICIENT                  | ±0.03% / °C (0-50 °C)   |             |              |              |                             |             |              |              |
| ISOLATION VOLTAGE                  | I/P-O/P: 500VDC FOR ASD15H-12S SERIES ,1.5KVDC FOR ASD15H-48S SERIES            |             |              |              |                             |             |              |              |
| ISOLATION RESISTANCE               | I/P-O/P:500VDC / 100M Ohms  |             |              |              |                             |             |              |              |
| WORKING TEMP., HUMIDITY            | -25°C~+71°C(60°C TO 71°C,DERATE 2.5% LOAD/°C), 0%~95% MAX. HEATSINK TEMP. 110°C |             |              |              |                             |             |              |              |
| STORAGE TEMP., HUMIDITY            | -40°C~+125°C, 0%~95%  |             |              |              |                             |             |              |              |
| DIMENSION                          | 1.5"x2"x0.375" (38.1x50.8x9.52mm)   |             |              |              |                             |             |              |              |
| WEIGHT                             | 25.5gs  |             |              |              |                             |             |              |              |
| SAFETY /EMI                        | DESIGN TO MEET: UL1950, EN60950, EN55022 ,FCC PART15J                           |             |              |              |                             |             |              |              |

MECHANISM AND PIN CONFIGURATION



| PIN | SINGLE  |
|-----|---------|
| 1   | +VIN    |
| 2   | -VIN    |
| 4   | CONTROL |
| 6   | +VOUT   |
| 7   | -VOUT   |
| 8   | TRIM    |

- NOTE :
- ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
  - TOLERANCE INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
  - RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
  - LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
  - LOAD REGULATION IS MEASURED FROM 10% TO 100% RATED LOAD.
  - SHORT CIRCUIT NOT MORE THAN 30 SECONDS.