

# SDS-060 Series

**60W, Single Output**  
**12V / 24V / 48V Input**



159 x 95 x 38 mm  
6.30 x 3.74 x 1.48 inch

|                                                     |  |
|-----------------------------------------------------|--|
|                                                     |  |
| * Power ON with LED indicator                       |  |
| * 2:1 input range, input and output isolation       |  |
| * Soft start function, low inrush current           |  |
| * Input under voltage protection                    |  |
| * Input polarity reverse protection                 |  |
| * Over load, over voltage, short circuit protection |  |
| * Output voltage $\pm 10\%$ adjustment              |  |
| * Non min load requirement                          |  |
| * 100% 50 burn-in test                              |  |
| * Meet UL, cUL, TUV standard                        |  |

| INPUT                                         | Model NO.                                                                                                                                                        |          | SDS-060A Ser.                                                                              |             | SDS-060B Ser.             |             | SDS-060C Ser.             |             |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------|-------------|---------------------------|-------------|---------------------------|-------------|
|                                               | Voltage                                                                                                                                                          |          | 9.5 ~ 18V DC (Typical 12V)                                                                 |             | 18 ~ 36V DC (Typical 24V) |             | 36 ~ 72V DC (Typical 48V) |             |
|                                               | Current                                                                                                                                                          |          | <10A @ 9.5V DC                                                                             |             | <4.6A @ 18V DC            |             | <2.4A @ 36V DC            |             |
|                                               | Protection                                                                                                                                                       |          | Ceramic Fuse 15A/125V                                                                      |             | Ceramic Fuse 6.3A/250V    |             | Ceramic Fuse 4A/250V      |             |
| OUTPUT                                        | Voltage                                                                                                                                                          |          | 3.3V                                                                                       | 5V          | 12V                       | 15V         | 24V                       | 48V         |
|                                               | Max. Load                                                                                                                                                        |          | 15A                                                                                        | 12A         | 5A                        | 4A          | 2.5A                      | 1.3A        |
|                                               | Regulation                                                                                                                                                       |          | ±3%                                                                                        | ±2%         | ±1%                       | ±1%         | ±1%                       | ±1%         |
|                                               | Ripple Noise (MAX.)                                                                                                                                              |          | 50mV                                                                                       | 50mV        | 100mV                     | 120mV       | 150mV                     | 240mV       |
|                                               | Efficiency (TYP.)                                                                                                                                                | SDS-060A | 62%                                                                                        | 64%         | 66%                       | ---         | 68%                       | 70%         |
|                                               |                                                                                                                                                                  | SDS-060B | 68%                                                                                        | 76%         | 78%                       | 78%         | 78%                       | 78%         |
|                                               |                                                                                                                                                                  | SDS-060C | 68%                                                                                        | 76%         | 80%                       | ---         | 82%                       | 82%         |
|                                               | Max Power                                                                                                                                                        |          | 50W                                                                                        | 60W         | 60W                       | 60W         | 60W                       | 60W         |
| Remark : Only SDS-060B Series has 15V output. |                                                                                                                                                                  |          |                                                                                            |             |                           |             |                           |             |
| PROTECTION                                    | Over Voltage                                                                                                                                                     |          | +3.8~ 4.6V                                                                                 | + 5.8~ 7.0V | +13.8~17.5V               | +17.3~21.0V | +27.6~33.6V               | +55.2~67.2V |
|                                               | Over Load                                                                                                                                                        |          | Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed. |             |                           |             |                           |             |
|                                               | Short Circuit                                                                                                                                                    |          | Shutdown, recovers automatically after fault condition has been removed.                   |             |                           |             |                           |             |
|                                               | Input Voltage                                                                                                                                                    |          | Under voltage shut down: SDS-060B : <15V~17V<br>SDS-060C : <32V~35V                        |             |                           |             |                           |             |
| OTHERS                                        | Rise time                                                                                                                                                        |          | < 20mS                                                                                     |             |                           |             |                           |             |
|                                               | Cooling                                                                                                                                                          |          | Natural cooling                                                                            |             |                           |             |                           |             |
| Environment                                   | Temperature                                                                                                                                                      |          | Operating: -10~70 ; de-rating: 50 ~70 : 2.5%/ . Storage: -10~+75                           |             |                           |             |                           |             |
|                                               | Humidity                                                                                                                                                         |          | Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)                                  |             |                           |             |                           |             |
| M.T.B.F.                                      | 417K hours                                                                                                                                                       |          |                                                                                            |             |                           |             |                           |             |
| SAFETY                                        | UL 60950-1 <sup>st</sup> , CSA C22.2 No.60950-1 <sup>st</sup> , TUV EN 60950-1 <sup>st</sup> :2001, IEC 60950-1 <sup>st</sup> , EMKO-TSE(74-SEC)207/94 standard. |          |                                                                                            |             |                           |             |                           |             |
| EMC                                           | EMI Standard                                                                                                                                                     |          | EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B.                           |             |                           |             |                           |             |
|                                               | EMS Standard                                                                                                                                                     |          | EN 55024 : EN 61000-4-2,3,4,5,6,8.                                                         |             |                           |             |                           |             |
| PACKING                                       | N.W.: 0.63KG / 1pc; 30pcs / 1.24 Cu ft <sup>3</sup> / 1 CTN                                                                                                      |          |                                                                                            |             |                           |             |                           |             |

# SDS-060 Series

