

SDS60 SERIES

AC/DC Single Multi Output: 60 Watts



Features

- Universal input 94~264VAC
- Low profile 32 mm
- Single, dual, triple and quad outputs
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- EMC EN55022
- Immunity EN61000-4
- Wide range of voltage options
- Voltage trim pot

Specifications (cont)

ESD IMMUNITY:	EN61000-4-2, level 2 Perf Criteria B
RADIATED IMMUNITY:	EN61000-4-3, 3 V/m Perf Criteria B
EFT/BURST:	EN61000-4-4, level 2 Perf Criteria B
SURGE:	EN61000-4-5, level 3 Perf Criteria B
CONDUCTED IMMUNITY:	EN61000-4-6, 3V Perf Criteria B
MAGNETIC FIELD:	EN61000-4-8, 1 A/m Perf Criteria B
DIPS & INTERRUPTIONS:	EN61000-4-11, 30% 10ms, 60% 100ms, 100% 5000ms Perf Criteria A, B, B
SAFETY APPROVALS:	EN60950, UL60950, CSA22, 2 No 234, CE Mark LVD

Specifications

INPUT VOLTAGE:	90-264VAC (120 - 370VDC)
INPUT FREQUENCY:	47-63Hz
INPUT CURRENT:	1.6A @ 115VAC 1.0A @ 230VAC
INRUSH CURRENT:	<15A @ 115VAC <30A @ 230VAC
EARTH LEAKAGE CURRENT:	<0.3mA @ 115VAC, 0.45mA @ 230VAC
INPUT PROTECTION:	2A/250VAC internal fuse
OUTPUT VOLTAGE:	See table
OUTPUT VOLTAGE TRIM:	±10% on V1 only
MINIMUM LOAD:	10% required on V1 and V2 of multi-output models to maintain regulation. Unit will start up with no load.
START UP DELAY:	1 sec typical
HOLD UP TIME:	20 ms typical
LINE REGULATION:	±1% from low line to high line
LOAD REGULATION:	±3% typical. 5% max on multi output models (±10% with no load on V1)
TRANSIENT RESPONSE:	4% max. deviation, 500µs recovery time for a 50% load change
RIPPLE & NOISE:	1% pk-pk typical
OVP:	112-132%, recycle input to reset
OVERLOAD PROTECTION:	110-150% with auto recovery
SHORT CIRCUIT PROTECT:	Trip and restart (Hiccup mode)
TEMP. CO-EFFICIENT:	0.04%/°C
EFFICIENCY:	80% typical
ISOLATION:	3000VAC Input to Output 1500VAC Input to Ground 500VAC Output to Ground
SWITCHING FREQUENCY:	60kHz typical
SIGNALS:	Green DC OK LED
MTBF:	>100 kHrs per MIL-HDBK-217F
OPERATING TEMP:	0°C to +70°C, derate linearly from 100% load at 50°C to 50% load at 70°C
COOLING:	Convection cooled
OPERATING HUMIDITY:	5-95% RH, non-condensing
STORAGE TEMP:	-40°C to +85°C
EMISSIONS:	EN55022, CISPR22 & FCC Part 15, level B conducted
HARMONIC CURRENTS:	EN61000-3-2
VOLTAGE FLICKER:	EN61000-3-3
DIMENSIONS:	127 x 76.2 x 32mm
WEIGHT:	200 grams

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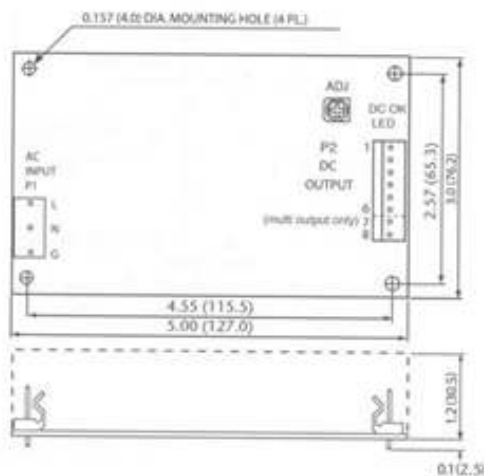
MODEL	V1		Factory Set Voltage Range	Power W
SDS60US03	3.3V	15.1A	3.0 - 5.0V	50W
SDS60US05	5.0V	11.0A	5.0 - 6.0V	55W
SDS60US07	7.0V	8.6A	6.0 - 9.0V	60W
SDS60US09	9.0V	7.0A	9.0 - 11.0V	63W
SDS60US12	12.0V	5.0A	11.0 - 13.0V	63W
SDS60US15	15.0V	4.2A	13.0 - 16.0V	63W
SDS60US19	19.0V	3.3A	16.0 - 21.0V	63W
SDS60US24	24.0V	2.6A	21.0 - 27.0V	63W
SDS60US30	30.0V	2.1A	27.0 - 33.0V	63W
SDS60US36	36.0V	1.8A	33.0 - 40.0V	63W
SDS60US48	48.0V	1.3A	40.0 - 50.0V	63W

MODEL	V1		V2		V3		V4		Power W
SDS60UD01	5.0V	7.0A	12.0V	3.0A					63W
SDS60UD04	3.3V	7.0A	5.0V	5.0A					48W
SDS60UT00	3.3V	6.0A	12.0V	3.0A	-12.0V	0.8A			63W
SDS60UT01	3.3V	6.0A	12.0V	3.0A	-5.0V	0.8A			63W
SDS60UT02	3.3V	6.0A	12.0V	3.0A	+5.0V	0.8A			63W
SDS60UT03	3.3V	5.0A	5.0V	5.0A	+12.0V	1.0A			53.5W
SDS60UT04	3.3V	5.0A	5.0V	5.0A	-12.0V	1.0A			53.5W
SDS60UT05	5.0V	6.0A	12.0V	3.0A	-12.0V	0.8A			63W
SDS60UT06	5.0V	6.0A	12.0V	3.0A	-5.0V	0.8A			63W
SDS60UT07	5.0V	6.0A	15.0V	3.0A	-15.0V	0.8A			63W
SDS60UT08	5.0V	6.0A	24.0V	2.0A	-24.0V	0.5A			63W
SDS60UT09	5.0V	6.0A	24.0V	2.0A	-12.0V	0.8A			63W
SDS60UT10	5.0V	6.0A	24.0V	2.0A	+12.0V	0.8A			63W
SDS60UQ00	3.3V	6.0A	12.0V	3.0A	-12.0V	0.8A	-5.0V	0.8A	63W
SDS60UQ01	3.3V	6.0A	12.0V	3.0A	-12.0V	0.8A	+5.0V	0.8A	63W
SDS60UQ02	5.0V	6.0A	12.0V	3.0A	-12.0V	0.8A	-5.0V	0.8A	63W
SDS60UQ03	5.0V	6.0A	12.0V	3.0A	-12.0V	0.8A	+24.0V	0.8A	63W
SDS60UQ04	5.0V	6.0A	12.0V	3.0A	-12.0V	0.8A	-24.0V	0.8A	63W
SDS60UQ05	5.0V	6.0A	15.0V	3.0A	-15.0V	0.8A	-5.0V	0.8A	63W
SDS60UQ06	5.0V	6.0A	24.0V	1.8A	-15.0V	0.1A	+12.0V	0.1A	59.3W

Notes:

1. If an output voltage within the factory set voltage range is required, a model number will be allocated at the time of order.
2. 10% minimum load is required on V1 and V2 of multi output units to maintain regulation of $\pm 5\%$. Regulation increases to $\pm 10\%$ with no load.
3. Other output combinations are available - contact sales for more information.
4. On multi output units V2 tracks V1, if V1 is adjusted by 5%, V2 changes by 5%
5. For optional U bracket, add suffix 'B' to model number. For optional cover, add suffix 'C' to model number.

SDS60



Pin Connections				
Pin	Single Output	Dual Output	Triple Output	Quad Output
1	Output 1	Output 2	Output 2	Output 2
2	Output 1	Output 1	Output 1	Output 1
3	Output 1	Output 1	Output 1	Output 1
4	Return	Common	Common	Common
5	Return	Common	Common	Common
6	Return	N/C	Output 3	Output 3
7				Output 4
8				Output 4

Notes:

1. Input connector mates with Molex housing 09-50-3051 and Molex 2878 series crimp terminal.
2. Output connector mates with Molex housing 09-50-306 or 9-50-3081 and Molex 2878 series crimp terminal.
3. For optional cover kit order part number SDS60 Cover Kit. To receive unit with cover fitted add suffix 'C' to model number. Cover size: 5.46 x 3.55 x 1.55 (140 x 91 x 39.7mm)
4. For mating connectors and cable harness, order part numbers:
 SDS60 CON: Single, dual and triple output models.
 SDS60Q CON: Quad output models.
 SDS60 LOOM: Single output models, cable harness
 SDS60DT LOOM: Dual and triple output models, cable harness
 SDS60Q LOOM: Quad output models, cable harness