

25 AND 50W SWITCHING DC/DC CONVERTER

Ampio range tensione di ingresso
2:1 wide input range

Raffreddamento a ricircolo d'aria
Cooling by free air convection

Protezione contro sovraccarico, corto circuito
sovratensione e sovratemperatura
Short circuit, over load, over voltage and over
temperature protection

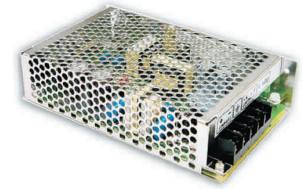
Isolamento galvanico ingresso / uscita / custodia
Input / output / case insulation

Test di burn-in svolto a pieno carico
100% full load burn-in test

ET-SD-25



ET-SD-50



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES							
MODEL		SD-25 -5	SD-25 -12	SD-25 -24	SD-50 -5	SD-50 -12	SD-50 -24
OUTPUT	DC VOLTAGE	5V	12V	24V	5V	12V	24V
	RATED CURRENT	5A	2.1A	1.1A	10A	4.2A	2.1A
	CURRENT RANGE	0 ~ 5A	0 ~ 2.1A	0 ~ 1.1A	0 ~ 10A	0 ~ 4.2A	0 ~ 2.1A
	RATED POWER	25W	25.2W	26.4W	50W	50.4W	50.4W
	RIPPLE & NOISE (max) note 2	100mVp-p	120mVp-p	150mVp-p	100mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	11 ~ 16V	23 ~ 30V	4.5 ~ 5.5V	11 ~ 16V	23 ~ 30V
	VOLTAGE TOLERANCE note 3	±2.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.3%	±0.2%	±0.5%	±0.3%	±0.2%
	LOAD REGULATION	±0.5%	±0.3%	±0.2%	±0.5%	±0.3%	±0.2%
SETUP, RISE, HOLD TIME		2.5s, 50ms at full load					
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type: fold back current limiting, recovers automatically after fault condition is removed.					
	OVER VOLTAGE (10% load)	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V
		Protection type: HICCUP mode, recovers automatically after fault condition is removed.					
ENVIRONMENT	WORKING TEMPERATURE	-10 ~ +60°C (refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMID.	-20 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes					
SAFETY EMC	SAFETY STANDARDS	design refer to LVD					
	WITHSTAND VOLTAGE	I/O-O/P 1.5KVAC - I/P-FG: 1.5KVAC - O/P-FG: 0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100 MOhms/500VDC					
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) class B					
EMS IMMUNITY		Compliance to EN61000-4-2,3,4,6,8 - ENV50204, ENV5024 heavy industrial level, criteria A					
OTHERS	DIMENSION - WEIGHT	99 x 97 x 36mm (LxWxH) - 0.38Kg			159 x 97 x 38mm (LxWxH) - 0.53Kg		
NOTE		1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple and noise are measured at 20MHz of band width by using a 12" twisted pair-wire terminated with 0.1uF and 47uF parallel capacitors. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. the power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.					

25W MODELS		SD-25A-5	SD-25B-5	SD-25C-5	SD-25A-12	SD-25B-12	SD-25C-12	SD-25A-24	SD-25B-24	SD-25C-24
INPUT	VOLTAGE RANGE	A: 9.2 ~ 18VDC B: 19 ~ 36VDC C: 36 ~ 72VDC								
	EFFICIENCY (Typ.)	71%	72%	74%	72%	75%	78%	75%	78%	81%
	DC CURRENT	3.2A / 12V			1.6A / 24V			0.8A / 48V		

50W MODELS		SD-50A-5	SD-50B-5	SD-50C-5	SD-50A-12	SD-50B-12	SD-50C-12	SD-50A-24	SD-50B-24	SD-50C-24
INPUT	VOLTAGE RANGE	A: 9.2 ~ 18VDC B: 19 ~ 36VDC C: 36 ~ 72VDC								
	EFFICIENCY (Typ.)	70%	73%	76%	72%	75%	78%	74%	80%	83%
	DC CURRENT	7A / 12V			3A / 24V			1.5A / 48V		

COME ORDINARE - 25W - HOW TO ORDER

Sigla - part number	Code	Sigla - part number	Code
1 ET/9-18/5/5A/SD25-A	4180	6 ET/19-36/24/1A/SD25-B	4185
2 ET/9-18/12/2A/SD25-A	4181	7 ET/36-72/5/5A/SD25-C	4186
3 ET/9-18/24/1A/SD25-A	4182	8 ET/36-72/12/2A/SD25-C	4187
4 ET/19-36/5/5A/SD25-B	4183	9 ET/36-72/24/1A/SD25-C	4188
5 ET/19-36/12/2A/SD25-B	4184		

COME ORDINARE - 50W - HOW TO ORDER

Sigla - part number	Code	Sigla - part number	Code
1 ET/9-18/5/10A/SD50-A	4192	6 ET/19-36/24/2A/SD50-B	4197
2 ET/9-18/12/4A/SD50-A	4193	7 ET/36-72/5/10A/SD50-C	4198
3 ET/9-18/24/2A/SD50-A	4194	8 ET/36-72/12/4A/SD50-C	4199
4 ET/19-36/5/10A/SD50-B	4195	9 ET/36-72/24/2A/SD50-C	4203
5 ET/19-36/12/4A/SD50-B	4196		

100 AND 150W SWITCHING DC/DC CONVERTER

Ampio range tensione di ingresso
2:1 wide input range

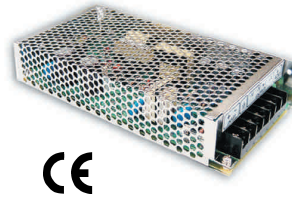
Raffreddamento a ricircolo d'aria
Cooling by free air convection

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Short circuit, over load, over voltage and over
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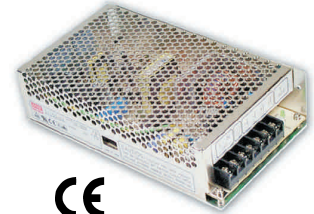
Isolamento galvanico ingresso / uscita / custodia
Input / output / case insulation

Test di burn-in svolto a pieno carico
100% full load burn-in test

ET-SD-100



ET-SD-150



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES						
MODEL		SD-100 -5	SD-100 -12	SD-100 -24	SD-150 -12	SD-150 -24
OUTPUT	DC VOLTAGE	5V	12V	24V	12V	24V
	RATED CURRENT	20A	8.5A	4.2A	12.5A	6.3A
	CURRENT RANGE	0 ~ 20A	0 ~ 8.5A	0 ~ 4.2A	0 ~ 12.5A	0 ~ 6.3A
	RATED POWER	100W	102W	100.8W	150W	151.2W
	RIPPLE & NOISE (max) note 2	100mVp-p	120mVp-p	150mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	11 ~ 16V	23 ~ 30V	11 ~ 16V	23 ~ 30V
	VOLTAGE TOLERANCE note 3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.3%	±0.2%	±0.5%	±0.3%
	LOAD REGULATION	±0.5%	±0.3%	±0.2%	±0.5%	±0.3%
SETUP, RISE, HOLD TIME	2s, 50ms, 20ms (only D models) at full load					
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type: fold back current limiting, recovers automatically after fault condition is removed.				
	OVER VOLTAGE (10% load)	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	16.8 ~ 20V	31.5 ~ 37.5V
		Protection type: HICCUP mode, recovers automatically after fault condition is removed.				
ENVIRONMENT	WORKING TEMPERATURE	-10 ~ +60°C (refer to output load derating curve)				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMID.	-20 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes				
SAFETY EMC	SAFETY STANDARDS	24V and 48V input design refer to LVD				
	WITHSTAND VOLTAGE	I/O-O/P 1.5KVAC - I/P-FG: 1.5KVAC - O/P-FG: 0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100 MOhms/500VDC				
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) class B				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8 - ENV50204 heavy industrial level, criteria A				
OTHERS	DIMENSION - WEIGHT	199 x 98 x 38mm (LxWxH) - 0.65Kg			199 x 110 x 50mm (LxWxH) - 0.86Kg	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple and noise are measured at 20MHz of band width by using a 12" twisted pair-wire terminated with 0.1uF and 47uF parallel capacitors. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. the power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.					

100W MODELS		SD-100B-5	SD-100C-5	SD-100D-5	SD-100B-12	SD-100C-12	SD-100D-12	SD-100B-24	SD-100C-24	SD-100D-24
INPUT	VOLTAGE RANGE	B: 19 ~ 36VDC			C: 36 ~ 72VDC			D: 72 ~ 144VDC		
INRUSH CURRENT D:20A/96Vdc	EFFICIENCY (Typ.)	74%	75%	76%	75%	77%	80%	78%	81%	83%
LEAKAGE CUR. <0.75mA/210Vac	DC CURRENT	6A / 24V			3A / 48V			1.5A / 96V		

150W MODELS		SD-150B-12	SD-150C-12	SD-150D-12	SD-150B-24	SD-150C-24	SD-150D-24
INPUT	VOLTAGE RANGE	B: 19 ~ 36VDC		C: 36 ~ 72VDC		D: 72 ~ 144VDC	
INRUSH CURRENT D:25A/96Vdc	EFFICIENCY (Typ.)	75%	77%	79%	77%	80%	82%
LEAKAGE CUR. <0.75mA/210Vac	DC CURRENT	8.5A / 24V	4.2A / 48V	2.1A / 96V	8.5A / 24V	4.2A / 48V	2.1A / 96V

COME ORDINARE - 100W - HOW TO ORDER				COME ORDINARE - 150W - HOW TO ORDER			
Sigla - part number	Code	Sigla - part number	Code	Sigla - part number	Code	Sigla - part number	Code
1 ET/19-36/5/20A/SD100-B	4207	6 ET/36-72/24/4A/SD100-C	4212	1 ET/19-36/12/12A/SD150-B	4218	6 ET/72-144/24/6A/SD150-D	4223
2 ET/19-36/12/8A/SD100-B	4208	7 ET/72-144/5/20A/SD100-D	4213	2 ET/19-36/24/6A/SD150-B	4219		
3 ET/19-36/24/4A/SD100-B	4209	8 ET/72-144/12/8A/SD100-D	4214	3 ET/36-72/12/12A/SD150-C	4220		
4 ET/36-72/5/20A/SD100-C	4210	9 ET/72-144/24/4A/SD100-D	4215	4 ET/36-72/24/6A/SD150-C	4221		
5 ET/36-72/12/8A/SD100-C	4211			5 ET/72-144/12/12A/SD150-D	4222		