

350W Single Output DC-DC Converter

SD-350 series



MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Features :

- ·2:1 wide input range
- *Protections: Short circuit / Overload / Over voltage / Over temperature
- ·1500VAC I/O isolation
- *Forced air cooling by built-in DC Fan
- ·100% full load burn-in test
- ·24V and 48V input voltage design refer to LVD
- ·2 years warranty



SPECIFICATION



SPECIFIC	ATION						AS/NZS	62368-1 TPTC0	104			
MODEL		SD-350B				SD-350C						
	DC VOLTAGE	5V	12V	24V	48V	5V	12V	24V	48V			
ОИТРИТ	RATED CURRENT	57A	27.5A	14.6A	7.3A	60A	27.5A	14.6A	7.3A			
	CURRENT RANGE	0 ~ 57A	0 ~ 27.5A	0~14.6A	0 ~ 7.3A	0 ~ 60A	0 ~ 27.5A	0 ~ 14.6A	0 ~ 7.3A			
	RATED POWER	285W	330W	350.4W	350.4W	300W	330W	350.4W	350.4W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120m Vp-p	150mVp-p	200mVp-p	100mVp-p	120mVp-p	150mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC	11 ~ 16VDC	23 ~ 30VDC	43 ~ 53VDC	4.5 ~ 5.5VDC	11 ~ 16VDC	23 ~ 30VDC	43 ~ 53VDC			
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.3%	±0.2%	±0.2%	±0.5%	±0.3%	±0.2%	±0.2%			
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME	300ms, 50ms a	300ms, 50ms at full load									
	VOLTAGE RANGE	B:19 ~ 36VDC										
INPUT	EFFICIENCY (Typ.)	74%	80%	80%	84%	76%	81%	81%	82%			
	DC CURRENT (Typ.)	14.4A/24V	16A/ <mark>24V</mark>	17.6A/24V	17.6A/24V	7.6A/48V	8.8A/48V	9.0A/48V	9.0A/48V			
	INRUSH CURRENT (Typ.)	C:45A/48VDC	D:45A/96V	DC								
PROTECTION	OVERLOAD	105 ~ 135% rated output power										
		Protection type: Shut down o/p voltage, re-power on to recover										
	OVER VOLTAGE	5.75 ~ 6.75V		31.5 ~ 37.5V	53 ~ 65V	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V			
		Protection type: Shut down o/p voltage, re-power on to recover										
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down										
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes										
	SAFETY STANDARDS	EAC TP TC 004 approved, design refer to AS/NZS 62368.1										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG	i, O/P-FG:100M	Ohms / 500VDC	ns / 500VDC / 25°C/ 70% RH							
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020										
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8, BS EN/EN55035, light industry level, EAC TP TC 020										
OTHERS	MTBF	1705.6K hrs min. Telcordia SR-332 (Bellcore) ; 263.9K hrs min. MIL-HDBK-217F (25°C)										
	DIMENSION	215*115*50mm (L*W*H)										
	PACKING	1.1Kg; 12pcs/14.4Kg/0.9CUFT										
NOTE	 All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 											





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- *Protections: Short circuit / Overload / Over voltage / Over temperature
- ·1500VAC I/O isolation
- *Forced air cooling by built-in DC Fan
- ·100% full load burn-in test
- *24V(B) and 48V(C) input voltage design refer to LVD
- ·2 years warranty



■ GTIN CODE

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SPECIFICATION



SPECIFIC	ATION		AS/	NZS62368-1 BS EN/EN62368	-1 IEC62368-1 TPTC004					
MODEL		SD-350D								
	DC VOLTAGE	5V	12V	24V	48V					
OUTPUT	RATED CURRENT	60A	29.2A	14.6A	7.3A					
	CURRENT RANGE	0 ~ 60A	0~29.2A	0 ~ 14.6A	0 ~ 7.3A					
	RATED POWER	300W	350.4W	350.4W	350.4W					
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150m Vp-p	200mVp-p					
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC	11 ~ 16VDC	23 ~ 30VDC	43 ~ 53VDC					
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%					
	LINE REGULATION	±0.5%	±0.3%	±0.2%	±0.2%					
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%					
	SETUP, RISE TIME	300ms, 50ms at full load								
	VOLTAGE RANGE	B:19 ~ 36VDC								
INPUT	EFFICIENCY (Typ.)	78%	83%	87%	89%					
INPUI	DC CURRENT (Typ.)	6A/96V	6A/96V	6A/96V	6A/96V					
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96	C:45A/48VDC D:45A/96VDC							
	OVERLOAD	105 ~ 135% rated output power								
		Protection type : Shut down or	/p voltage, re-power on to re	ecover						
PROTECTION	OVER VOLTAGE	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V					
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	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
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	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	IEC/BS EN/EN 62368-1, EAC TP TC 004 approved, design refer to AS/NZS 62368.1								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100N	M Ohms / 500VDC / 25°C/ 70)% RH						
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55022 (CISPR22) Class B, EAC TP TC 020								
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8, BS EN/EN55035, light industry level, EAC TP TC 020								
OTHERS	MTBF	1705.6K hrs min. Telcordia SR-332 (Bellcore) ; 263.9K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	215*115*50mm (L*W*H)								
	PACKING	1.1Kg; 12pcs/14.4Kg/0.9CUFT								
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p (as available on https://www The ambient temperature d	IOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. In the measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Indees set up tolerance, line regulation and load regulation. It is is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to MC tests, please refer to "EMI testing of component power supplies." https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) neerature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								





