SDX-6350-G96 Series

350W 96VDC Input ATX12V 1U Power Supply



205 x 100 x 40.5 mm

8.07 x 3.94 x 1.60 inch

Features:

- Input and output isolation
- High efficiency and reliability
- Altitude during operation up to 4000M
- Soft start function, low inrush current
- Dual-rail, 12V design, capable of supplying higher power output
- Input polarity reverse protection
- Over voltage, over load & short circuit, over temperature protection
- 3.3V & 5V VRM design
- With power good signal & PS-ON signal output
- 100% full load burn-in test
- Meet Intel ATX 2.01 / ATX2.31 / ATX 12V / EPS
- UL, cUL, CB, CE approved
- 2 years warranty

Specification:

INPUT	Model No.	SDX-6350-G96						
	Voltage	72V~144V (Typical 96V)						
	Current	<6.7A@72VDC						
	Protection	Ceramic Fuse, 10A / 250V						
OUTPUT	Voltage	5V	3.3V	12V1	12V2	-12V	-5V	5Vsb
	Min Load	0.3A	0A	0.2A	0A	0A	0A	0A
	Max Load	25A	20A	16A	16A	1A	0.5A	2A
	Output Tolerance ②	±3%	±5%	±3%	±3%	±10%	±5%	±5%
	Ripple Noise MAX. ③	70mV	70mV	120mV	120mV	120mV	100 mV	70 mV
	Efficiency (TYP.)	82%						
	Output MAX.	3.3V & 5V max 125W, -5V & -12V max 12W, total output max 350W						
PROTECTION	Over Voltage	5.7V~6.5V	3.7V~4.1V	13.1V~14.5V		----	----	----
		Shutdown and latch off, recover after re-start up.						
	Over current (MAX)	30A	30A	20A	20A	----	----	----
	OverLoad & Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and latch off, recover after re-start up.						
	Over Temperature	Over 95℃± 5℃ Shutdown, recovers automatically after fault condition has been removed.						
ELEC. CHAR.	Rise time	<20mS						
	Power Good signal	Power on within 100~500ms, high level TTL signal release.						
	PS-ON signal	P/S ON: PS-ON=Low or <0.8V, P/S OFF: PS-ON=Hi or >2V						
ENVIRONMENT	Temperature ④	Operating: -10~70℃; De-rating: 50~70℃ : 2.5%/℃. ; Storage: -20~+85℃						
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)						
	Altitude	4000M operating						
SAFETY	Withstand voltage	I/P-O/P:2KVAC, I/P-FG:1.5KVAC, 1minute						
	Isolation resistance	I/P-O/P, I/P-FG, > 100MΩ/500VDC at 25℃/ 70% RH						
	Safety standard	UL 60950-1 2nd,CSA C22.2 No. 60950-1- 07 2nd , IEC 60950-1:2005+A1+A2, approved						
EMC	EMI	EN 55032 CLASS B, FCC CFR 47 PART 15 CLASS B						
	EMS	EN 55035 : EN 61000-4-2,3,4,5,6,8						
OTHERS	Cooling	Forced airflow cooling with a DC fan.						
	M.T.B.F.	114 K hours						
	Dimension	205x100x40.5 ㎜ (L*W*H)						
	PACKING	N.W.: 1.25 KG / 1PC; 12 PCS / 2.02 CUFT / 1 CTN						

NOTE

① All measurements which not mentioned are based on 96VDC input, **output max** at ambient 25℃ / 70%RH

② Output tolerance included set up voltage, line regulation and load regulation.
The regulation is measured between 20%-100% **max load** of each output, Total output t must under **output Max**.

③ Ripple & noise are measured at 10～50℃ condition and 20MHz of bandwidth by using a 10″ ～15″ twisted pair-wire terminated with a 0.1uF & a 10uF parallel capacitor.

④ The operating temperature shall follow the de-rating curve in spec

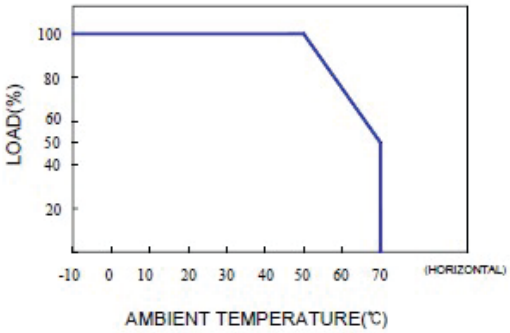
⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

⑥ Start up steps : Connect AC or DC source, before you turn on the power supply. The unit can't be operated by PS-ON and GND are shorted before power supply turns on. Please contact us for different requirement.

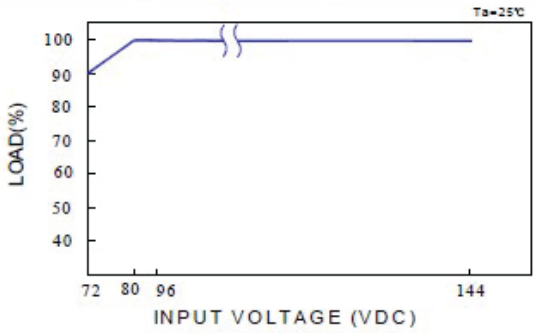
Copy Right Sunpower Technology Corp. 2009, All Rights Reserved.
Specifications subject to change without notice.
QR0405-1 Rev,:1.0

Sunpower Electronics is a trading division of Sunpower Group Holdings | Orion House, Calleva Park, Aldermaston, Berkshire RG7 8SN | Tel: +44 (0)118 981 1001 | Email: enquiries@sunpower-uk.com

De-rating Curve :

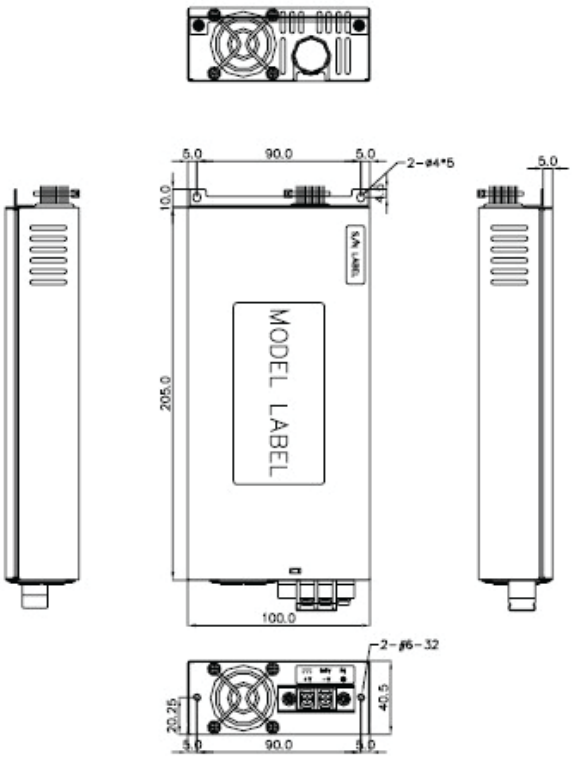


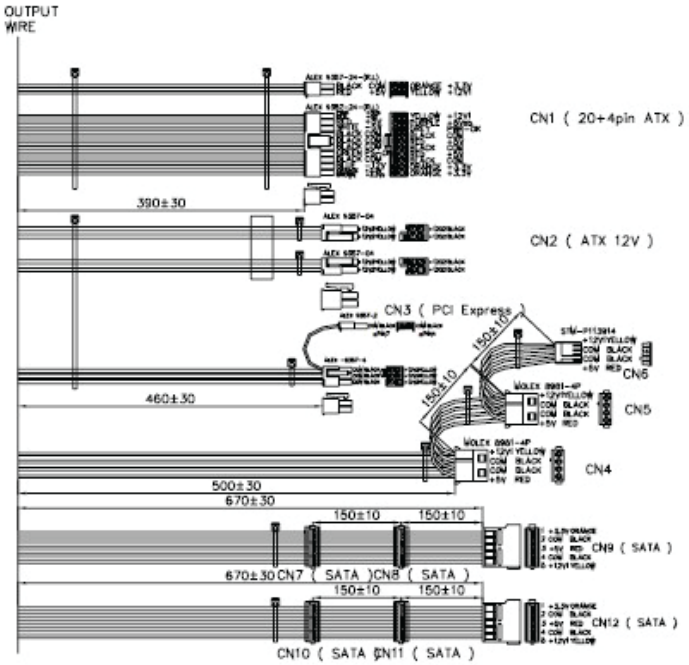
Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)





Copy Right Sunpower Technology Corp. 2009, All Rights Reserved.
Specifications subject to change without notice.

QR0405-1 Rev,:1.0

SDX-6350-G96 Rev 2.0
RS-100098 JUL.24.2023