

DATX-6200-48-1U / DATX-6250-48-1U / DATX-6300-48-1U

**DC 48V Input, 200W~300W
For 1U System
DC-DC for ATX12V Power supply**



180 x 100 x 40.5 mm

7.09 x 3.94 x 1.60 inch

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
- * 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
- * Meet Intel ATX 2.01 / ATX2.31 / ATX 12V / EPS
- * UL, cUL, CB, CE approved
- * 2 years warranty

Specification:

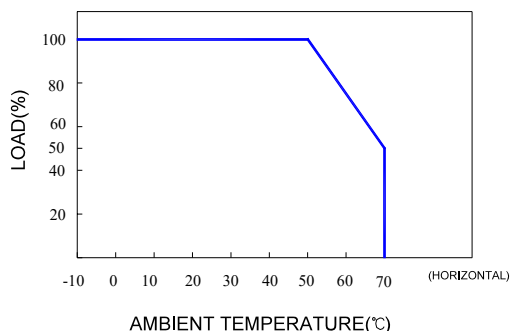
Specification		Model No.		DATX-6200-48-1U		DATX-6250-48-1U		DATX-6300-48-1U	
INPUT	Voltage		36V~72V (Typical 48V)						
	Current		<7.5A@36VDC		<9.6A@36VDC		<11.5A@36VDC		
	Protection		Ceramic Fuse, 10A/250V		Ceramic Fuse, 12A / 250V		Ceramic Fuse, 15A/250V		
OUTPUT	Voltage		5V	3.3V	12V1	12V2	-12V	-5V	5Vsb
	Min Load		0.3A	0A	0.2A	0A	0A	0A	0A
	Max Load	SDX-6200	20A	20A	12A	----	1A	0.5A	2A
		SDX-6250	20A		16A	----			
		SDX-6300	25A		16A	16A			
	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.)		80%						
	Output MAX.		DATX-6200-48-1U : 3.3V & 5V max 110W, -5V & -12V max 12W, total output max 200W						
			DATX-6250-48-1U : 3.3V & 5V max 110W, -5V & -12V max 12W, total output max 250W						
DATX-6300-48-1U : 3.3V & 5V max 125W, -5V & -12V max 12W, total output max 300W									
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 & ShortCircuit		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.						
ENVIRONMENT	PS-ON signal		P/S ON: PS-ON=Low or <0.8V, P/S OFF: PS-ON=Hi or >2V						
	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 2 nd ,CSA C22.2 No. 60950-1- 07 2 nd , IEC 60950-1:2005+A1+A2, approved						
EMC	EMI		EN /BS EN 55032 CLASS B, FCC CFR 47 PART 15 CLASS B						
	EMS		EN /BS EN 55035 EN /BS EN 61000-4-2,3,4,5,6,8						
OTHERS	Cooling		Forced airflow cooling with a DC fan.						
	M.T.B.F.		116 K hours						
	Dimension		180 x 100 x 40.5 mm (L*W*H)			180 x 100 x 40.5 mm (L*W*H)		205 x 100 x 40.5 mm (L*W*H)	
	PACKING		N.W.: 1.17 KG / 1PC; 12 PCS / 2.02 CUFT / 1 CTN			N.W.: 1.25 KG / 1PC; 12 PCS / 2.02 CUFT / 1 CTN			
NOTE	① All measurements which not mentioned are based on 48VDC 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 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.								



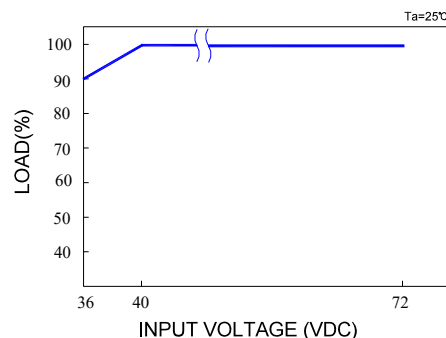
Nippon Beta Power Co., Ltd

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De-rating Curve :



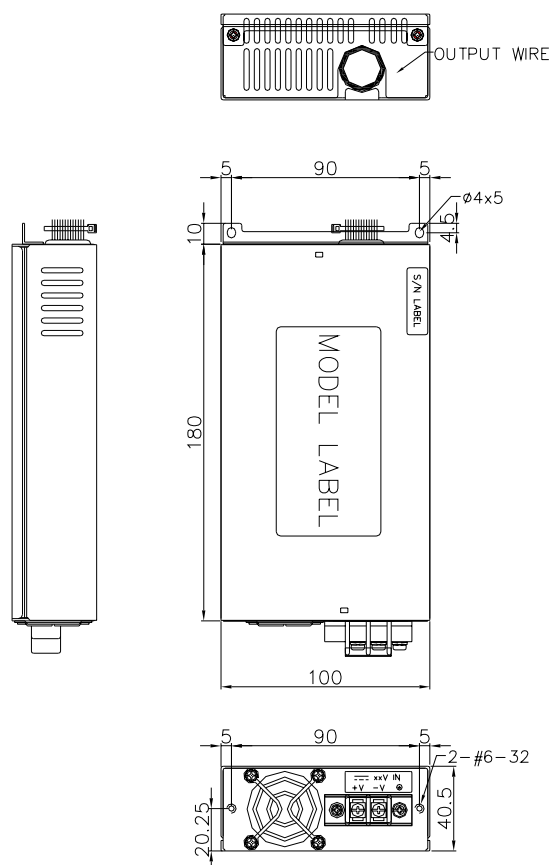
Output De-rating Vs Input Voltage :



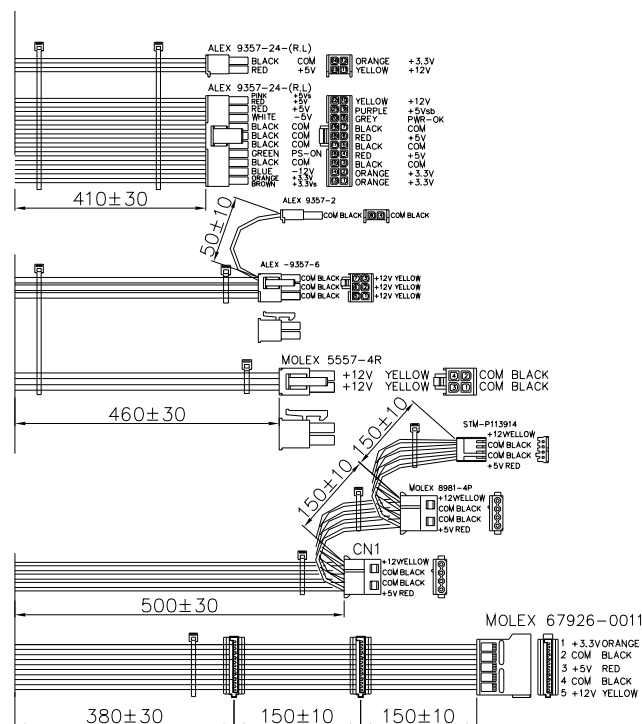
Dimension:

(Unit: mm)

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OUTPUT WIRE

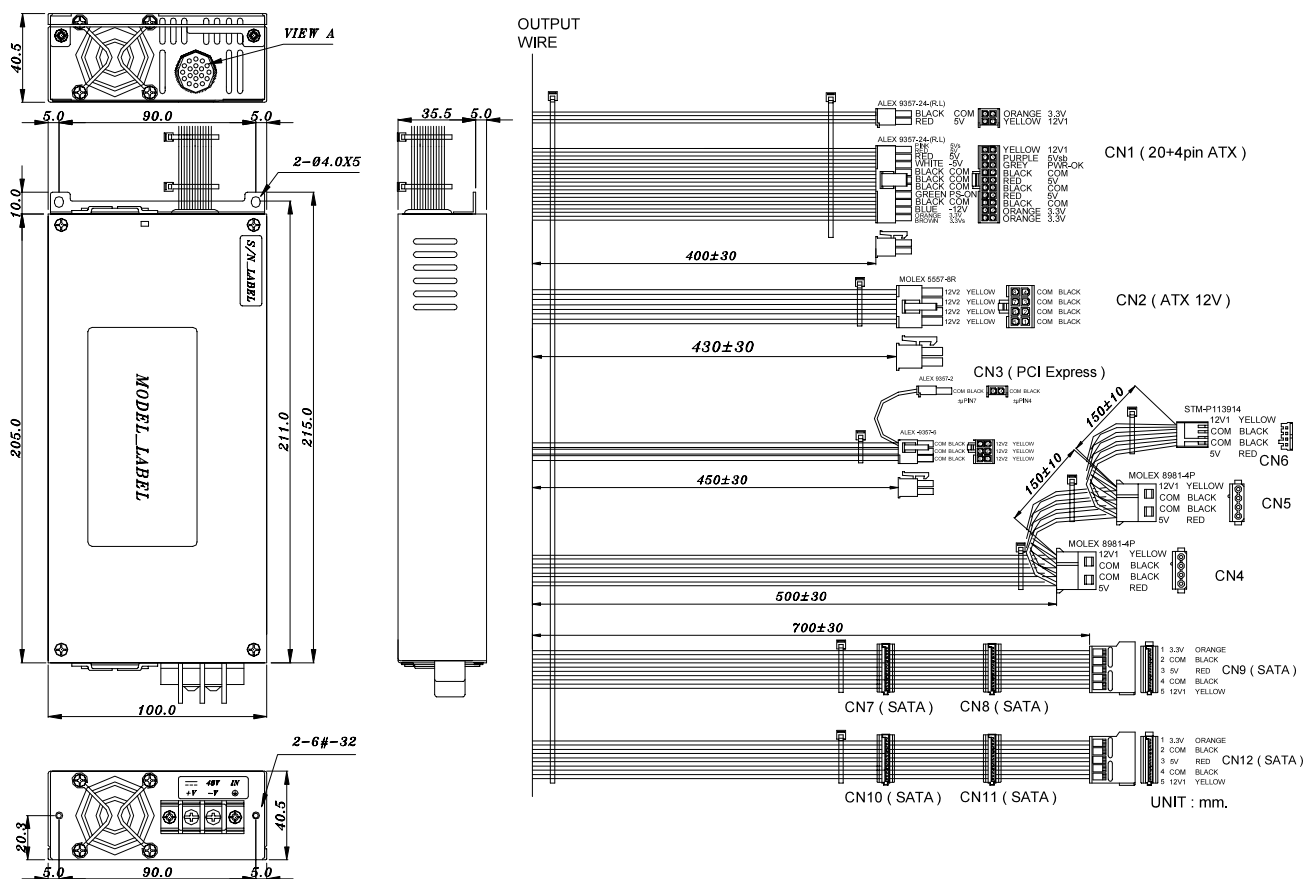


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Dimension:

(Unit: mm)

DATX-6300-48-1U



Input Voltage Connection:

A TYPE : +48V Input

B TYPE : -48V Input

