







**Model Number** 









**DPS-800AB-64 C** 

Delta AC-DC Slim Type Front-End power supply accepts a wide range 90–264 V<sub>AC</sub> input and provides a main 12 V output plus a 5V or 12V standby output.

Rated at 800 and 1000 watts it has a high peak efficiency of 94%.

Housed in a slimline 1U high, up to 2.1 inch wide rack mount enclosure, the power supply is primarily designed for enterprise servers and similar applications.

#### **FEATURES**

- Meets 80 PLUS Platinum Efficiency
- 12 V Main Output
- 12 V or 5 V Standby Output
- 1U Height
- Redundant (N+1) Operation
- Power Factor Correction
- Overvoltage, Overcurrent, Overtemperature Protection

**DPS-1000AB-14 G** 

- Remote on/off Control
- Remote Sense
- Internal Cooling Fan (variable speed)
- PMBus 1.2 Support
- RoHS Compliant
- Three Year Warranty

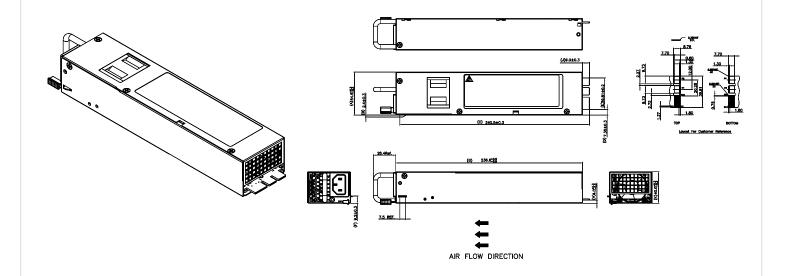
Slim Type 800 W Platinum	Slim Type 1 KW Platinum		
90~264			
+12V			
65.57 83.3			
+5VSB	+12VSB		
3			
800 W	1000 W		
100 ~ 127 V <sub>AC</sub> : <10 200 ~ 240 V <sub>AC</sub> : <5.5	$100 \sim 127 V_{AC} < 11$ $200 \sim 240 V_{AC} : < 5.5$		
230 V <sub>AC</sub> <40	230 V <sub>AC</sub> <30		
>94 @ 50% load			
47~63 Hz			
>0.98 @ 50% load			
<3.5 mA for DPS-800AB-64 C			
<1.5 mA for DPS-1000AB-14 G			
12 V: <200 mVp-p for DPS-800AB-64 C, <120 mVp-p for DPS-1000AB-14 G			
5VSB: <50 mVp-p for DPS-800AB-64 C, 12VSB: <120 mVp-p for DPS-1000AB-14 G			
12V: ±5%			
5VSB/12VSB: ±5%			
<50 ms			
>10 ms (75 % load) for DPS-800AB-64 C			
>20 ms (90 % load) for DPS-1000AB-14 G			
	90~ +1: 65.57 +5VSB  800 W 100~127 V <sub>AC</sub> : <10 200~240 V <sub>AC</sub> : <5.5 230 V <sub>AC</sub> <40  >94 @ 50  47~63 Hz >0.98 @ 50% load <3.5 mA for DPS-800AB-64 C <1.5 mA for DPS-1000AB-14 G  12V: <200 mVp-p for DPS-800AB-64 C, <120 mVp-p for DF 5VSB: <50 mVp-p for DPS-800AB-64 C, 12VSB: <120 mVp 12V: ±5% 5VSB/12VSB: ±5% <50 ms >10 ms (75% load) for DPS-800AB-64 C		

<sup>\*</sup> Ripple & Noise measurement bandwidth is 0-20 MHz, with 10 µF, ceramic capacitor and 1 µF ceramic capacitor.

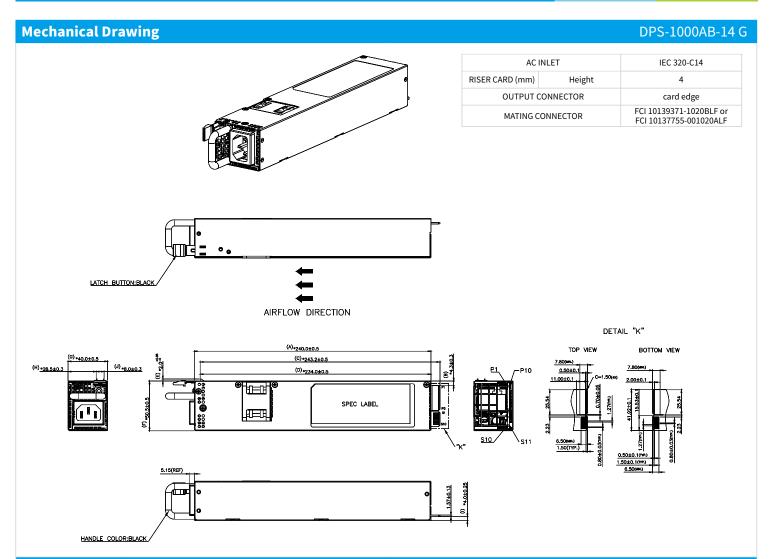
Protections						
	If the current limits are exceeded, the power supply shuts down and latches off. The latch will be cleared by toggling the PSON# signal or by an AC power interruption. The power supply will not be damaged from repeated power cycling in this condition. Standby will be auto-recovered after removing OCP limit.					
	Model Number	DPS-800AB-64 C	nps.	-1000AB-14 G		
Over Current		Over Current Limit		Current Limit		
	+12V	73.5A~83.3A		2A~108A		
	+5 VSB for DPS-800AB-64 C					
	+12VSB for DPS-1000AB-14 G	3.5A~4.8A	3	.5A~4.8A		
	12V: 13.0~15 & 5VSB: 5.7~6.5 for DPS-800AB-64	С				
Over Voltage	12V: 13.0~14.5 & 12VSB: 13.0~14.5 for DPS-1000	AB-14 G				
	Shutdown and latch off					
Over Temperature	Shutdown					
<b>Environmental Specific</b>	ations					
Operating Temperature Range	0~55°C for DPS-800AB-64 C, 0~55°C / NEBS: 61°C	C for DPS-1000AB-	14 G			
Storage Temperature Range	-40~70°C					
Storage Humidity	5~90%					
Altitude	<5000 m					
MTBF (230 V <sub>AC</sub> )	100,000 hours at 75% load and 40°C, as calculated and 40°C for DPS-800AB-64 C	100,000 hours at 75% load and 40°C , as calculated by Bell core RPP or 250000 hours demonstrated at 75%				
	100,000 hours for DPS-1000AB-14 G					
	236.6*54.5*40 mm for DPS-800AB-64 C					
Dimension	240*50.5*40 mm for DPS-1000AB-14 G					
Safety						
Safety Approvals	TUV+CB, UL&cUL, CCC, CE, BSMI, KC, BIS for DPS-800AB-64 C UL/cUL,TUV,CB,CE,CCC,AS/NZ,Russia,KCC,IEC 62368 for DPS-1000AB-14 G					
	EN55032 Class A for DPS-800AB-64 C					
EMC Emission	EN55032 Class A & EN61000-3-2,-3 for DPS-1000AB-14 G					
	EN61000-4-2,3,5 for DPS-800AB-64 C					
EMC Immunity		EN55024 & EN61000-4-2,3,4,5,6,8,11 for DPS-1000AB-14 G				
Function						
PG signal (PW OK)	Active TTL high when output is within regulation	n limits				
PS-ON signal	The output will be enabled when this signal is p	ulled low, outputs	disabled when pin is d	riven high or left ope		
Remote Sense	+/-200 mV					
LED Indicator States						
Power Supply Condition				State		
Normal Operation, Output ON			DPS-800AB-64 C Green	DPS-1000AB-14 G Green		
No AC power to all power supplies		Off	Off			
AC present / Only 12VSB on (PS off) or PS in Smart On state			1 Hz Blink Green	1 Hz Blink Green		
AC cord unplugged or AC power lost; with a second power supply in parallel still with AC input power		Red	1 Hz Blink Amber			
Power supply warning events where the power supply continues to operate; high temp, high power, high cuurent, slow fan		1 Hz Blink Red	_			
· ·	ing a main output shutdown; failure, OCP, OVP, Fan Fa	nil	Red	_		
Power Supply Fail, PFC side OK, or Fan Fail			_	Amber		
Power Supply Fail, PFC side OK,						
Power Supply Fail, PFC side OK, Power Supply Fail, PFC side Fail			_	Amber + 2 Hz Blink Green		

 $<sup>^\</sup>star$  Amber and Green 0.5 sec on and 0.5 sec off separately and sequentially in two seconds

#### **Mechanical Drawing** DPS-800AB-64 C IEC 60320 C-14 RISER CARD (mm) Height OUTPUT CONNECTOR card edge ALLTOP C21401-101H5-L MATING CONNECTOR



Output Pin Assignment					
PIN	DESCRIPTION	PIN	DESCRIPTION		
S1	N/A	S15	12LS		
S2	PS-PRNT	S16	ALERT		
S3	A0	S17	SDA		
S4	N/A	S18	SCL		
<b>S</b> 5	N/A	S19	PS_KILL		
\$6	SMART_ON	S20	PS_ON		
<b>S</b> 7	N/A	S21	PSW_OK		
S8	N/A	S22	A1		
<b>S</b> 9	N/A	S23	+5 VSB		
S10	N/A	S24	+5 VSB		
S11	5VSB	P1	СОМ		
S12	5VSB	P2	СОМ		
S13	12 VRS+	P3	+12V		
S14	12 VRS-	P4	+12V		



Output Pin Assignment				
PIN	DESCRIPTION	PIN	DESCRIPTION	
P1	GND	S6	NA	
P2	GND	<b>S</b> 7	VS	
P3	GND	S8	+12VRS	
P4	GND	S9	+12 VRS-	
P5	GND	S10	12LS	
P6	+12V	S11	PS_KILL	
P7	+12V	S12	SMART_ON	
P8	+12V	S13	PWOK	
P9	+12V	S14	SMB_ALERT	
P10	+12V	S15	SCL	
S1	+12VSB	S16	SDA	
S2	+12VSB	S17	A0	
S3	12VRS+	S18	A1	
S4	PSON	S19	12VSB	
S5	PRESENT	S20	12VSB	



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2023 - All information and specifications are subjected to change without prior notice.