



FEATURES

- 80 PLUS Platinum Efficiency (>96%)
- 12V main output
- 12V standby output
- Redundant (N+1) operation
- Power Factor Correction
- Overvoltage, overcurrent, overtemperature protection
- Remote on/off control
- Internal cooling fan (variable speed)
- PMBus interface
- RoHS compliant
- Two year warranty



Model List

Model Number	Fan Airflow Direction	Input Voltage Range VAC	Output Main Voltage VDC	Output Current Range A	Output Standby Voltage VDC	Output Standby Current A	Rated Power W	AC Input Current A	Inrush Current A	Efficiency %
DPS-3000AB-2 A	Reverse: AC input To DC output	180~264	12	1~220(180~207VAC) 1~245(208~240VAC)	12	0.05~4.5	2700 3000	<16 @ 208 Vac	<55	96 @ 50% load
DPS-3000AB-1 A	Forward: DC output To AC output									

Input Characteristics

Parameter	
Frequency	47~63 Hz
Power Factor	>0.98 @ 50% load
Leakage Current	<1.5mA @ 240VAC/50Hz

Output Characteristics

Parameter	
Ripple & Noise (Note 1)	12V: <160mVp-p 12VSB: <160mVp-p
Voltage Regulation	12V: $\pm 5\%$ 12VSB: $\pm 5\%$
Rise Time	5~70ms
Hold Up Time	>10ms

Protections

3000W Front End AC-DC Power Supply

Parameter	
Overload	>270A for 200ms, shutdown and recovery
Over Voltage	12V: 13.5V~15V 12VSB: 13.5V~15V Shutdown and latch off
Over Temperature	Shutdown

Environmental Specifications

Parameter	
Operating Temperature Range	0~45°C (Forward) / 0~45°C (Reverse) Sea level
Storage Temperature Range	-40~70°C
Storage Humidity	5~90%
Altitude	<5000m
MTBF	400,000 hours (100% load and 40°C by Telcordia SR332)
Weight	Maximum 3.0Kg

Safety

Parameter	Standards
Safety Approvals	UL 60950-1 Second Edition CSA EN-60950 CB Scheme amendment 2 CHINA CQC BSMI
EMC Emission	EN55022 (CISPR22) Class A, EN61000-3-2, -3
EMC Immunity	EN55024, EN61000-4-2,3,4,5,6,8,11

Function

Parameter	
Power Good signal	Active TTL high when output is within regulation limits
PS-ON signal	The output will be enabled when this signal is pulled low, outputs disabled when pin is driven high or left open
PS Interrupt L (Alert) Signal	Signal high when power supply is working fine. Signal low when error occurs.
PS_KILL (Short pin)	This input signal has a short pin in the output connector, ANDed with PS_ON_L. It functions as the first break / last mate pin, thus, supports hot-swap capability. This enables or disables the main +12V output of the power supply. When this signal is shorted to ground by the system, the main +12V output shall be enabled.
PS_Present_Low (short pin)	This input signal pin is grounded inside the power supply via 50 Ohm resistors. It can be used to sense PSU seated by using a suitable pull-up to Aux bus with a noise filter capacitor connected to Aux return.
IShare	This signal is an analog bus which should allow two or more power supplies to share the system load current.
AC_OK	The AC_OK is an open collector output signal which is normally HIGH whenever input AC voltage is within allowable limits.

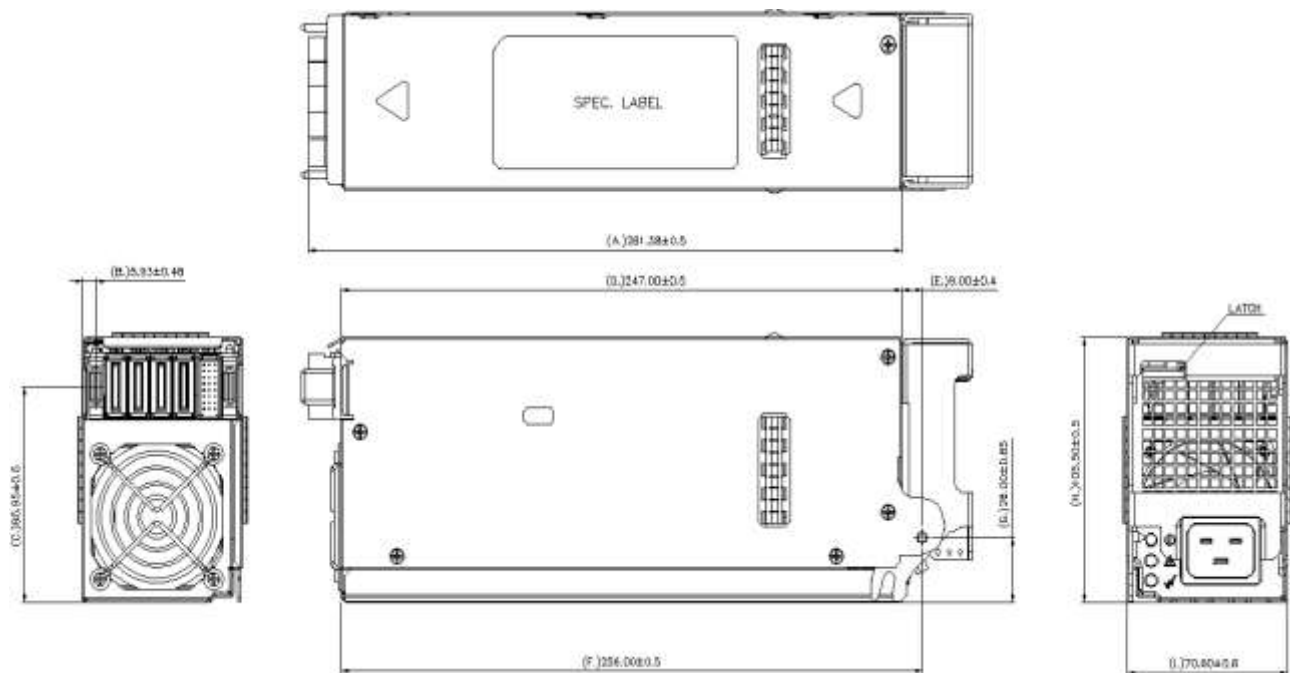
3000W Front End AC-DC Power Supply

	CONDITION	AC GOOD Green LED	PWR GOOD Green LED	FAULT Amber LED
1	AC present, Aux output ON, Main	ON	ON	OFF
2	AC present, Aux output ON, Main	ON	OFF	OFF
3	Fault of any kind; supply in chassis, electrical, thermal or	ON	OFF	Blinking 1.5 Sec on, 1.5 Sec off
4	Power supply plugged in to a live	OFF	OFF	OFF
5	Power supply has AC power but not plugged in to the chassis	Blinking Green 1.5 Sec on 1.5 Sec off	OFF	OFF

Notes

- 1 Ripple & Noise measurement bandwidth is 0-20MHz, with 10 μ F, ceramic capacitor and 1 μ F ceramic capacitor.

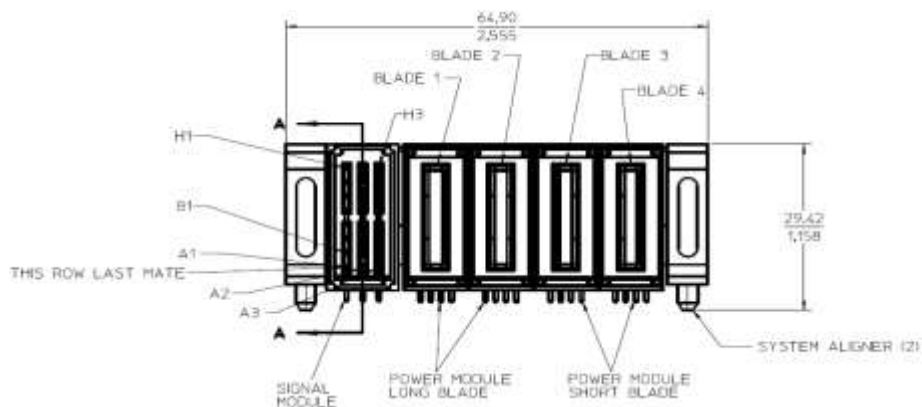
Mechanical Drawing (DPS-3000AB-1 A/DPS-3000AB-2 A)



Output Pin Assignment

OUTPUT CONNECTOR

MOLEX 75555-104



3000W Front End AC-DC Power Supply

PIN No.	1	2	3
A	POWER GOOD(SHORT PIN)	PS_KILL(SHORT PIN)	PS_PRESENT(SHORT PIN)
B	RETURN	ISHARE	RETURN
C	PS_INTERRUPT	RETURN	ACOK
D	RETURN	PSON	RESERVED
E	SDA	SCL	A0
F	RESERVED	A1	A2
G	RESERVED	RESERVED	RESERVED
H	12VSB	12VSB	12VSB
P1-P2	RETURN		
P3-P4	12.1V		

WARRANTY

Delta offers a two (2) years limited warranty. Complete warranty information is listed on our web site or is available upon request from Delta.

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