



FEATURES

- ♦ Efficiency up to 92%
- ♦ Input Range 90~264VAC
- ♦ Compact size: 150*81.5*40mm
- ♦ 1U form factor
- ♦ Power Factor Correction
- ♦ Remote on/off control
- ♦ Remote sense
- ♦ Three years warranty

Model List

Model Number	Input Voltage Range	Input Current	Inrush Current	Output Current Range					Output Power	Efficiency
				12V1	12V2	5V	3.3V	5Vsb		
	VAC	A	A	A	A	A	A	A		
DPS-400AB-12 A	90~264	6 (120VAC) 3 (240VAC)	<50	1~21	1~21	0.1~16	0.1~10	0.05~2	400W	90@50% load
DPS-500AB-16 A		8 (120VAC) 4 (240VAC)		2~35	---	1~8	1.5~15	0.1~2	500W	92@50% load

Input Characteristics

Parameter	
Frequency	47~63 Hz
Power Factor	>0.95 @ 50% load for DPS-400AB-12/20 only >0.98 @ 50% load for DPS-500AB-16/22 only
Leakage Current	<3mA @ 240VAC/50Hz

Output Characteristics

Parameter	
Output Voltage	12V, 5V, 3.3V, 5Vsb
Ripple & Noise (Note 1)	12V1, 12V2: <120mVp-p 5V, 3.3V, 5Vsb: <50mVp-p
Voltage Regulation	±5%
Rise Time	0-50ms for DPS-400AB-12/20 only 1~70ms for DPS-500AB-16/22 only
Hold Up Time	>10ms for DPS-400AB-12 A only > 16ms for DPS-500AB-16 A only

Protections

Parameter	
Overload	110%~150% of rated current Shutdown and latch off
Over Voltage	12V: 13.5V~15V 5V: 5.7V~6.5V 3.3V: 3.9V~4.5V 5VSB: 5.7V~6.5V Shutdown and latch off
Over Temperature	Shut Off

Environmental Specifications

Parameter	
Operating Temperature Range	0~50°C
Storage Temperature Range	-40~70°C
Storage Humidity	5~90%
Altitude	<2000m
MTBF	100,000 hours
Dimension	150*81.5*40mm
Weight	1Kg

Safety

Parameter	Standards
Safety Approvals	TUV+CB, UL & cUL 60950, CCC, CE, BSMI, FCC
EMC Emission	EN55022 (CISPR22) Class A, EN61000-3-2, -3
EMC Immunity	EN55024, EN61000-4-2,3,4,5,6,8,11

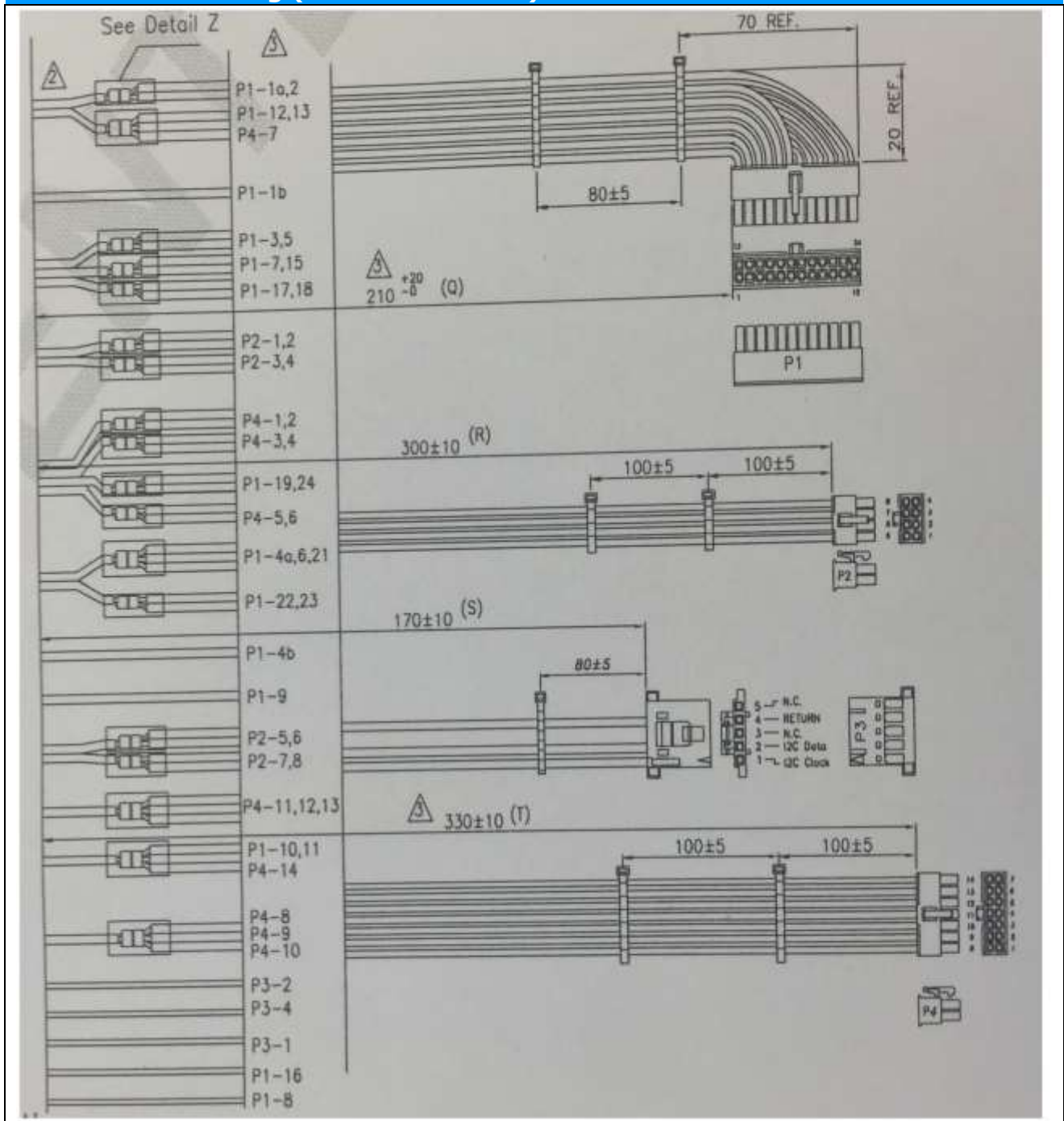
Function

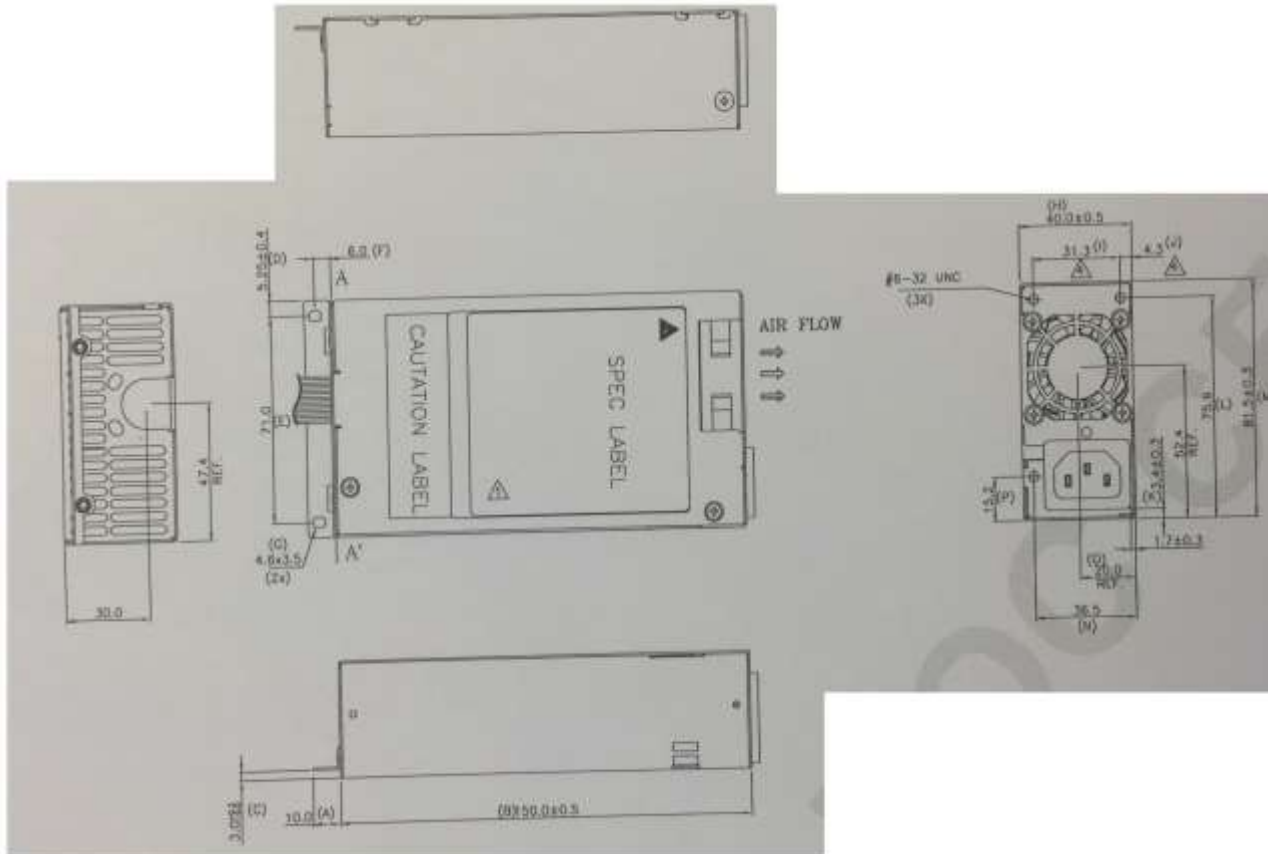
Parameter	
Remote ON/OFF	Power supply ON when logic level low (0~0.8V) Power supply high OFF when logic level high (2.0~5.25V)
Remote Sense (mV)	Supports 3.3V and 5V only
PW-OK (Power Good Signal)	Output high to indicate that +5V output has reached 4.75V. Output low when any of the outputs is out of regulation

Notes

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

Mechanical Drawing (DPS-400AB-12 A)





P1 : PIN ASSIGNMENT

HOUSING: MOLEX P/N: 39-01-2245. 

CONTACT: MOLEX HCS TYPE P/N: 44476 SERIES.

PIN NO.	OUTPUT	COLOR	WIRE #	PIN NO.	OUTPUT	COLOR	WIRE #
24	GROUND	BLACK	AWG 18 UL#1007	11	+12V2DC	YELLOW/BLACK	AWG 18 UL#1007
23	+5VDC	RED	AWG 18 UL#1007	10	+12V2DC	YELLOW/BLACK	AWG 18 UL#1007
22	+5VDC	RED	AWG 18 UL#1007	9	5VSB	PURPLE	AWG 18 UL#1007
21	+5VDC	RED	AWG 18 UL#1007	8	PWR OK	GRAY	AWG 18 UL#1007
20	N/C	N/C	N/C	7	GROUND	BLACK	AWG 18 UL#1007
19	GROUND	BLACK	AWG 18 UL#1007	6	+5VDC	RED	AWG 18 UL#1007
18	GROUND	BLACK	AWG 18 UL#1007	5	GROUND	BLACK	AWG 18 UL#1007
17	GROUND	BLACK	AWG 18 UL#1007	4b	+5VS	RED	AWG 24 UL#1007
16	PS ON	GREEN	AWG 18 UL#1007	4a	+5VDC	RED	AWG 18 UL#1007
15	GROUND	BLACK	AWG 18 UL#1007	3	GROUND	BLACK	AWG 18 UL#1007
14	N/C	N/C	N/C	2	+3.3VDC	ORANGE	AWG 18 UL#1007
13	+3.3VDC	ORANGE	AWG 18 UL#1007	1b	+3.3VS	ORANGE	AWG 24 UL#1007
12	+3.3VDC	ORANGE	AWG 18 UL#1007	1a	+3.3VDC	ORANGE	AWG 18 UL#1007

P2 : PIN ASSIGNMENT

HOUSING: MOLEX 39-01-2085 OR EQUIVALENT.

CONTACT: MOLEX 44476 SERIES OR EQUIVALENT.

PIN NO:	OUTPUT	COLOR	PVC WIRE
1	GND	BLACK	AWG 18 UL#1007
2	GND	BLACK	AWG 18 UL#1007
3	GND	BLACK	AWG 18 UL#1007
4	GND	BLACK	AWG 18 UL#1007
5	+12V10C	YELLOW	AWG 16 UL#1007
6	+12V10C	YELLOW	AWG 16 UL#1007
7	+12V10C	YELLOW	AWG 16 UL#1007
8	+12V10C	YELLOW	AWG 16 UL#1007

P3

HOUSING: MOLEX 50-57-9705 OR EQUIVALENT.

CONTACT: MOLEX 16-02-0087 OR EQUIVALENT.

PIN NO:	OUTPUT	COLOR	WIRE #
5	N/C	N/C	N/C
4	RETURN	BLACK	AWG 24 UL#1007
3	N/C	N/C	N/C
2	I2C DATA	W/YELLOW	AWG 24 UL#1007
1	I2C CLOCK	W/GREEN	AWG 24 UL#1007

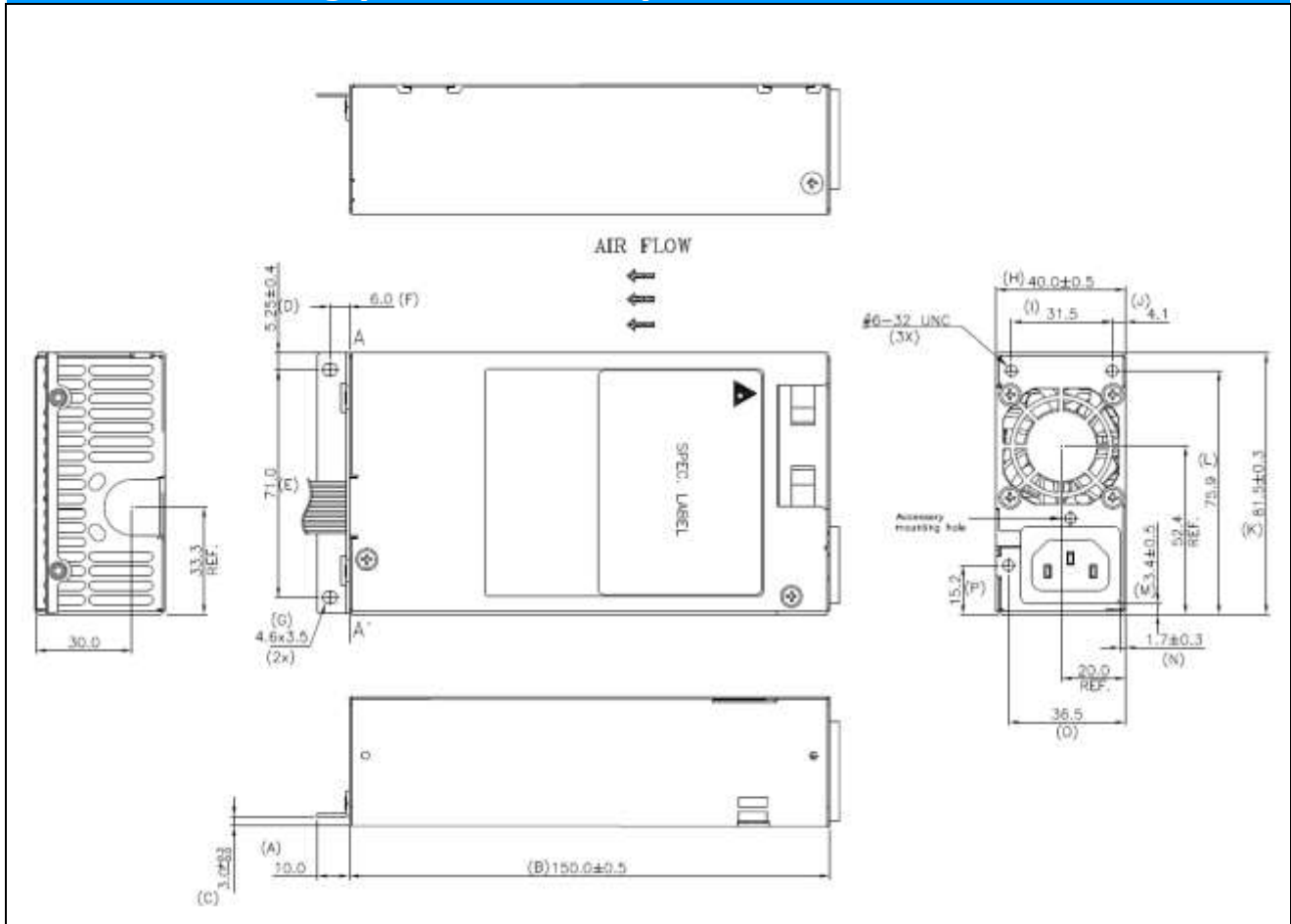
P4 : PIN ASSIGNMENT

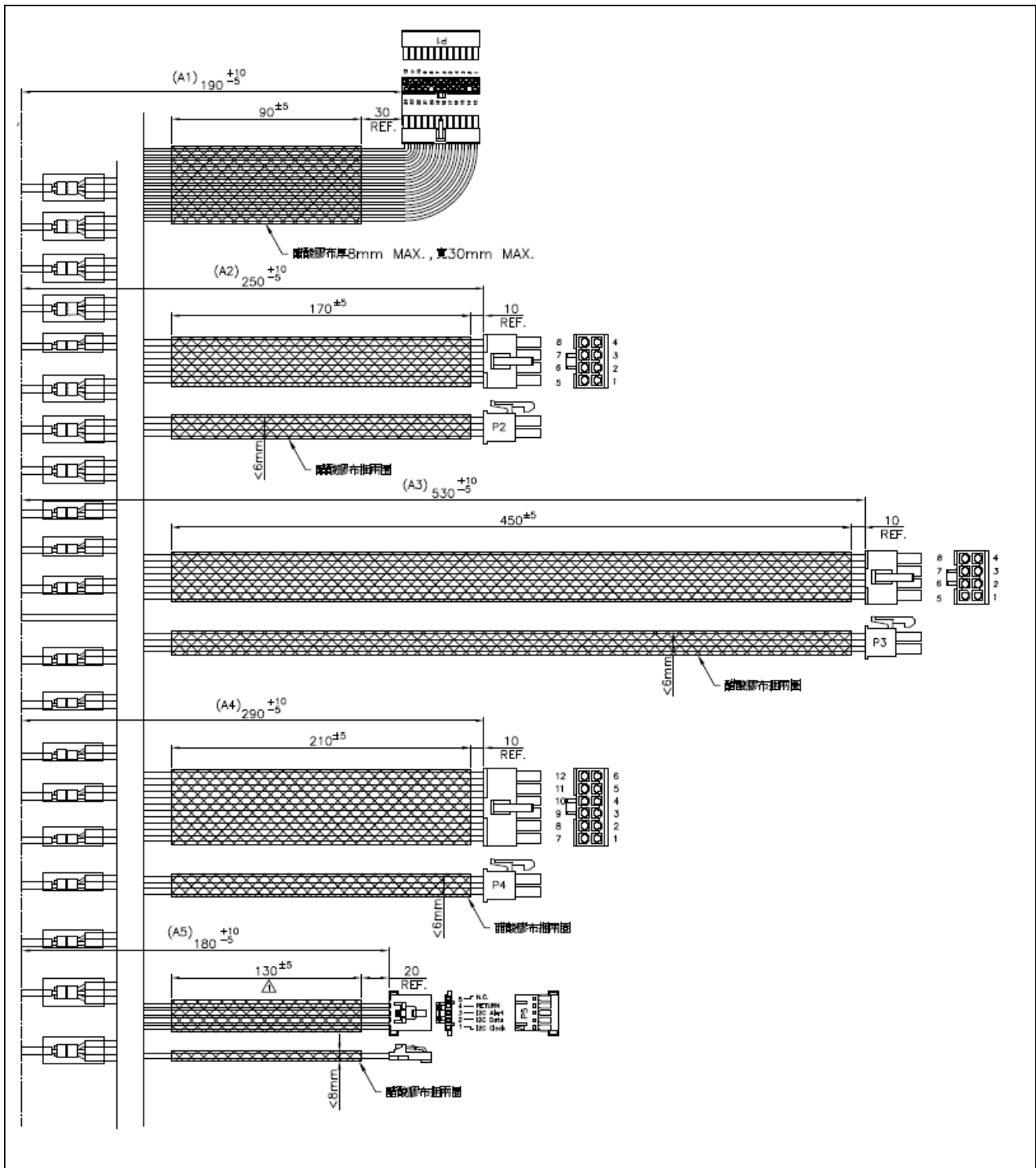
HOUSING: MOLEX P/N: 39-01-2145.

CONTACT: MOLEX P/N: 44476-1111.

PIN NO:	OUTPUT	COLOR	WIRE #	PIN NO:	OUTPUT	COLOR	WIRE #
14	+12V20C	YELLOW/BLACK	AWG 18 UL#1007	7	+3.3VDC	ORANGE	AWG 18 UL#1007
13	+12V20C	YELLOW/BLACK	AWG 18 UL#1007	6	GROUND	BLACK	AWG 18 UL#1007
12	+12V20C	YELLOW/BLACK	AWG 18 UL#1007	5	GROUND	BLACK	AWG 18 UL#1007
11	+12V20C	YELLOW/BLACK	AWG 18 UL#1007	4	GROUND	BLACK	AWG 18 UL#1007
10	+5VDC	RED	AWG 18 UL#1007	3	GROUND	BLACK	AWG 18 UL#1007
9	+5VDC	RED	AWG 18 UL#1007	2	GROUND	BLACK	AWG 18 UL#1007
8	+5VDC	RED	AWG 18 UL#1007	1	GROUND	BLACK	AWG 18 UL#1007

Mechanical Drawing (DPS-500AB-16 A)





P1: PIN ASSIGNMENT

HOUSING: MOLEX P/N: 39-01-2245 OR EQUIVALENT.

PIN NO.	OUTPUT	COLOR	WIRE #	PIN NO.	OUTPUT	COLOR	WIRE #
1	+3.3V	ORANGE	AWG#18 UL1007	13	+3.3V	ORANGE	AWG#18 UL1007
2a	+3.3V	ORANGE	AWG#18 UL1007	14	N/A	N/A	N/A
2b	+3.3VS	ORANGE	AWG#22 UL1430	15	GROUND	BLACK	AWG#18 UL1007
3	GROUND	BLACK	AWG#18 UL1007	16	PSON	GREEN	AWG#24 UL1007
4a	+5V	RED	AWG#18 UL1007	17	GROUND	BLACK	AWG#18 UL1007
4b	+5VS	RED	AWG#22 UL1430	18	GROUND	BLACK	AWG#18 UL1007
5	GROUND	BLACK	AWG#18 UL1007	19	GROUND	BLACK	AWG#18 UL1007
6	+5V	RED	AWG#18 UL1007	20	N/A	N/A	N/A
7	GROUND	BLACK	AWG#18 UL1007	21	+5V	RED	AWG#18 UL1007
8	PWOK	GRAY	AWG#24 UL1430	22	+5V	RED	AWG#18 UL1007
9	+5VSB	PURPLE	AWG#18 UL1007	23	+5V	RED	AWG#18 UL1007
10	+12V	YELLOW	AWG#18 UL1007	24	GROUND	BLACK	AWG#18 UL1007
11	+12V	YELLOW	AWG#18 UL1007				
12	+3.3V	ORANGE	AWG#18 UL1007				



P2&P3: PIN ASSIGNMENT

HOUSING: MOLEX 39-01-2085 OR EQUIVALENT.

PIN NO.	OUTPUT	COLOR	WIRE #
1	GROUND	BLACK	AWG#18 UL1007
2	GROUND	BLACK	AWG#18 UL1007
3	GROUND	BLACK	AWG#18 UL1007
4	GROUND	BLACK	AWG#18 UL1007
5	+12V	YELLOW	AWG#18 UL1007
6	+12V	YELLOW	AWG#18 UL1007
7	+12V	YELLOW	AWG#18 UL1007
8	+12V	YELLOW	AWG#18 UL1007

P4: PIN ASSIGNMENT

HOUSING: MOLEX P/N: 39-01-2125 OR EQUIVALENT.

PIN NO.	OUTPUT	COLOR	WIRE #
1	+12V	YELLOW	AWG#18 UL1007
2	GROUND	BLACK	AWG#18 UL1007
3	+5V	RED	AWG#18 UL1007
4	GROUND	BLACK	AWG#18 UL1007
5	+5V	RED	AWG#18 UL1007
6	GROUND	BLACK	AWG#18 UL1007
7	+5V	RED	AWG#18 UL1007
8	GROUND	BLACK	AWG#18 UL1007
9	+3.3V	ORANGE	AWG#18 UL1007
10	GROUND	BLACK	AWG#18 UL1007
11	+12V	YELLOW	AWG#18 UL1007
12	+12V	YELLOW	AWG#18 UL1007



P5: PIN ASSIGNMENT

HOUSING: MOLEX 50-57-9705 OR EQUIVALENT.

PIN NO.	OUTPUT	COLOR	WIRE #
1	DC CLOCK	WHITE/YELLOW	AWG#24 UL1007
2	DC DATA	WHITE/GREEN	AWG#24 UL1007
3	DC ALERT	WHITE	AWG#24 UL1007
4	RETURN	BLACK	AWG#24 UL1007
5	N/A	N/A	N/A



WARRANTY

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