



APPROVAL SHEET
承認書

REF. # : APP-05050

序號 A

DESCRIPTION : SWITCHING POWER SUPPLY

品 名

MODEL NO. : HDC250P-24B-490(E)

型 號

CUSTOMER : 鼎鈇克

貴 客

REF. NUMBER : _____

APPROVAL NO. : _____

APPROVAL STAMPS 承認簽章

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DATE : 08/18/2005

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文件 / 規格名稱	SPECIFICATIONS	文件 / 規格名稱	版本
TITLE	OF SWITCHING POWER SUPPLY	DOC. / SPEC. NO.	ISSUE NO.
		HDC250P-24B-490(E)	A

1

SCOPE

THE FOLLOWING SPECIFICATIONS DESCRIBE THE CONSTRUCTION OF
HDC250P-24B-490(E) POWER SUPPLY.

2

SAFETY

EN60950

3

GENERAL SPECIFICATIONS

3-1

TOPOLOGY : FORWARD CONVERTER

3-2

ENVIRONMENTAL :

	TEMPERATURE	HUMIDITY
OPERATION	0 ° C ~ +50 ° C (convention cooling)	20 % ~ 90 % (non-condensing)
STORAGE	- 40 ° C ~ +85 ° C	20 % ~ 95 %

4

ELECTRICAL SPECIFICATIONS

4-1

INPUT SPECIFICATION

Input Voltage :

18-36VDC

Input Connector :

Positronic 47-pin PCIH47M400A1

Input Current :

13.7A @ 24V

Dielectric Withstand :

Meet IEC950 regulation

EMI :

Meet Class A, CISPRR Class A, FCC Class B.

Remote ON/OFF :

Available at [INH#] & [EN#] pins

Power Fail Signal :

Available at [FAL#] pin

Status LED :

<Green> means valid input voltage

<Amber> means a critical fault

Thermal Protection (OTP) :

Installed NTC and thermostat for thermal sensor at [DEG#] pin

Leakage Current :

Typ. 0.5mA

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4-2 OUTPUT SPECIFICATION Output Voltage : +5V, +3.3V, +12V, -12V Output Current : +5V/25A, +3.3V/18A, +12V/5A, -12V/0.5A Output Wattage : Typ. 250W continuous Output Connector : Positronic 47-pin PCIH47M400A1 Line Regulation : Typ. 0.1% Load Regulation : Typ. +/- 2% Noise & Ripple : Typ. 1% peak to peak or 50mV, which is greater OVP : Built-in at all outputs Adjustability : Available at VO1, 2 & 3 Output Trim : Electrical trim available at VO1/VO2. [ADJ #] Remote Sensing : Available at VO1, 2 & 3 Hot-Swap : Available N+1 Redundancy : Installed with internal OR-ing diodes at all outputs for N+1 redundancy operation Current Sharing : Third-wire current sharing at VO1, 2 & 3, +/- 10% Power OK Signal : Available for all output Over Current Protection (OCP) : Installed at each rail Overload Protection (OLP) : Fully protected against output overload or short circuit. Typical 120% max. load. Consult the factory for special OLP setting. 4-3 GENERAL SPECIFICATION Efficiency : Typ. 76% Switching Frequency : 120K Hz Circuit Topology : Forward circuit Transient Response : Peak transient less than 100mV and recovers within 2mS after 25% load-change. Safety Standard : IEC 60950 Class I Construction : Eurocard 3U X 8HP X 160mm CompactPCI format. Front Panel with either Ordinary handle or Extractor handle. Operating Temperature : 0 to +50°C at full load with 600 lfm forced cooling Storage Temperature : -40 to +85°C Temperature Coefficient : Typ. +/- 0.02%/°C Cooling : At least 600 lfm moving air is required to achieve full rating power 250W in a confined area.			

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4-3 GENERAL CHARACTERISTICS : EMI TEST : In compliance with CISPR 22 Class A, FCC Class B 5 MECHANICAL SPECIFICATIONS 5-1 VIBRATION TEST SPECIFICATION : 5-1-1 Random vibration test (Operating) Frequency : 5 ~ 500Hz Acceleration : 0.5 Grm Vibration : Six degree-of-freedom random Duration : 1 hour 30 min Equipment : QualMark Mode: OVS-2.5eLF S/N : 2507010465 5-1-2 Random vibration test (Non-Operating) Frequency : 5 ~ 500Hz Acceleration : 1.88 Grm Vibration : Six degree-of-freedom random Duration : 3 hour Equipment : QualMark Mode: OVS-2.5eLF S/N : 2507010465 5-2 OUTLINE : STAIN, SCAR AND DEFORMATION ARE NOT ALLOWED. 5-3 WEIGHT: 0.8 kg					

ELECTRONICS CORPORATION
海昌電子股份有限公司

MODEL NO. : HDC250P-24B-490(E)

INPUTS :

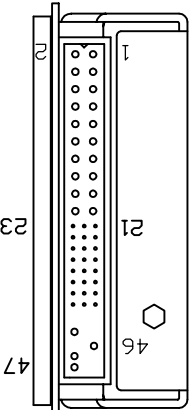
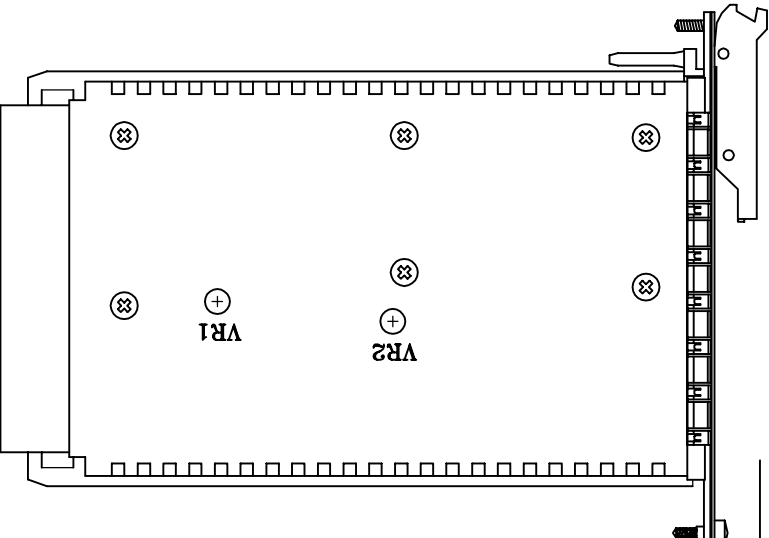
OUTPUTS :

SIZE : A4	FM-4000-34/REV A-080502
UNIT :mm[inches]	FILENAME: PHD00628
REV. NO.: ϕ	DATE : 10. 31. 2002
DRAWN: 洪麗珍 L. J. Hun	CHECKED:

IN/OUTPUT RATING & PIN ASSIGNMENT

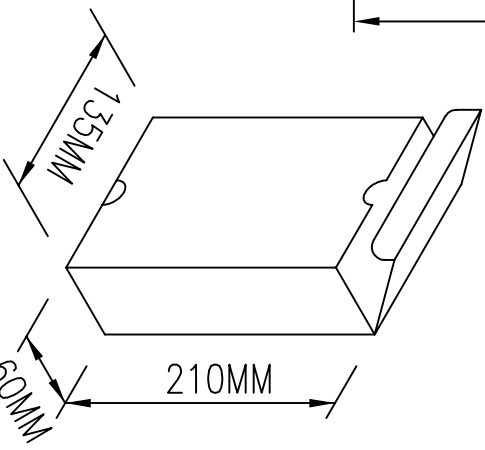
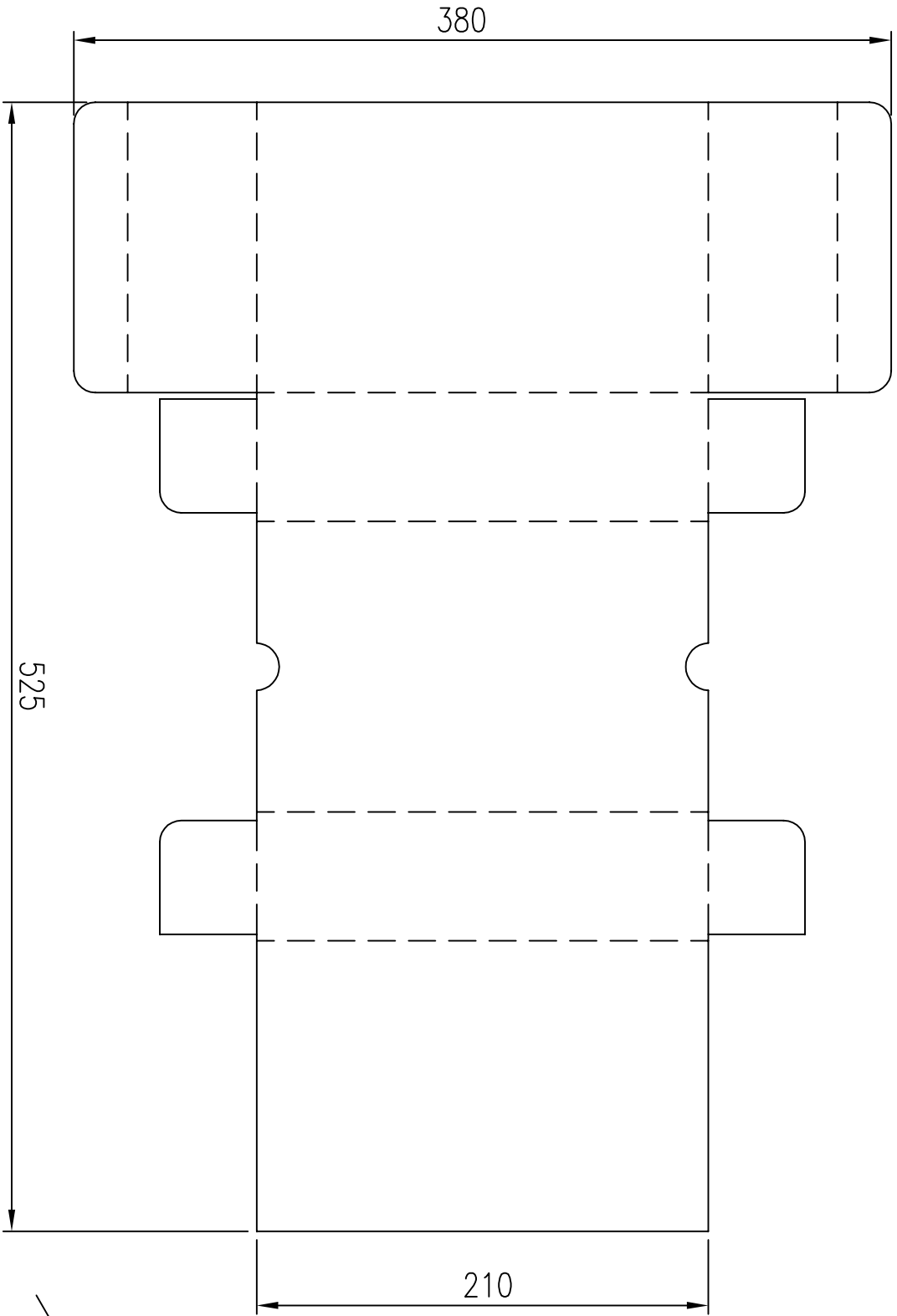
ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
-	18-36VDC	24V/13.8A	47
+			46
GND			45

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V1:	+5V ---	25A	1,2,3,4
V2:	+3.3V ---	18A	13,14,15,16,17,18
V3:	+12V ---	5A	20



DC COM:	5,6,7,8,9,10,11,12,19,22,24
EN:	27
V1 ADJ:	29
5VS+:	30
V2 ADJ:	32
3.3VS:	33
5VS-:	34
5CS:	35
12VS:	36
DEG:	38
INH:	39
3.3CS:	41
FAL:	42
12CS:	44
MAXIMUM OUTPUT POWER: 250W	

MAXIMUM OUTPUT POWER: 250W



scale 2:1

適用機種:
HAC250, HDC250
HAC200, HDC200

TITLE		HITRON ELECTRONICS CORPORATION 海昌電子股份有限公司			
BOX					
DRAWN		L. J. HUN		DRG. NO. BOX-001	
CHECKED				MODEL NO.	
UNIT		mm[inches]		REV. NO.	
THIRD		Ø		SCALE	
		TOL.		± 0.2	
		DATE		05. 15. 2003	
		MAT'L		t=	