

FEATURES

- Build-in active PFC function, PF > 0.9
- Compact design for multiple outputs
- Dual to Quad output, Flexible DC output combination from 3.3V to 48V
- 2 year warranty

ELECTRICAL SPECIFICATIONS

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load
- Inrush current : < 40A peak @115VAC; < 80A peak @230VAC cold start @25°C
- Input current (rms) : 2.5A @115VAC; 1.25A @230VAC max.
- Efficiency : > 80% typical @full load, 115VAC
- Maximum output power (Po) : 150 Watts forced air, 120 Watts convection cooling
- Hold-up time : > 16ms typical @full load, 115VAC
- Short circuit protection : Auto-recovery.
- Over load protection: 110% to 160% maximum rating, Auto-recovery
- Over temperature protection: Automatic shutdown
(The temperature sensing point is located at HS1, OTP threshold is 88±4°C typical.)

ENVIRONMENTAL

- Operating temperature : 0 to +60°C (Derate linearly 2.5% per °C from 41 to 60°C)
- Storage temperature: -40°C to +85°C
- Humidity: Non-condensing 5% to 95%
- MTBF : > 100,000 hours @full load and 25°C ambient temperature

DC OUTPUT & FEATURES

✂ Model identification code example PW-150B-2Y01X

X= Blank Open Frame type,
X=U U-channel type



RoHS compliant

Open Frame Type:

Dimension: L127 x W76.2 x H34.5mm (5" x 3" x 1.36")
Weight : 0.39 kgs. (0.86 lbs.)

U-Channel Type:

Dimension: L127 x W80.5 x H40mm (5" x 3.17" x 1.57")
Weight : 0.5 kgs. (1.11 lbs.)

SAFETY STANDARDS

UL UL60950-1
CSA 22.2-No.60950-1
Nemko EN60950-1
CB IEC60950-1

EMC STANDARDS

FCC Class B Part 15
CISPR22 Class B
EN 55022 Class B
CE

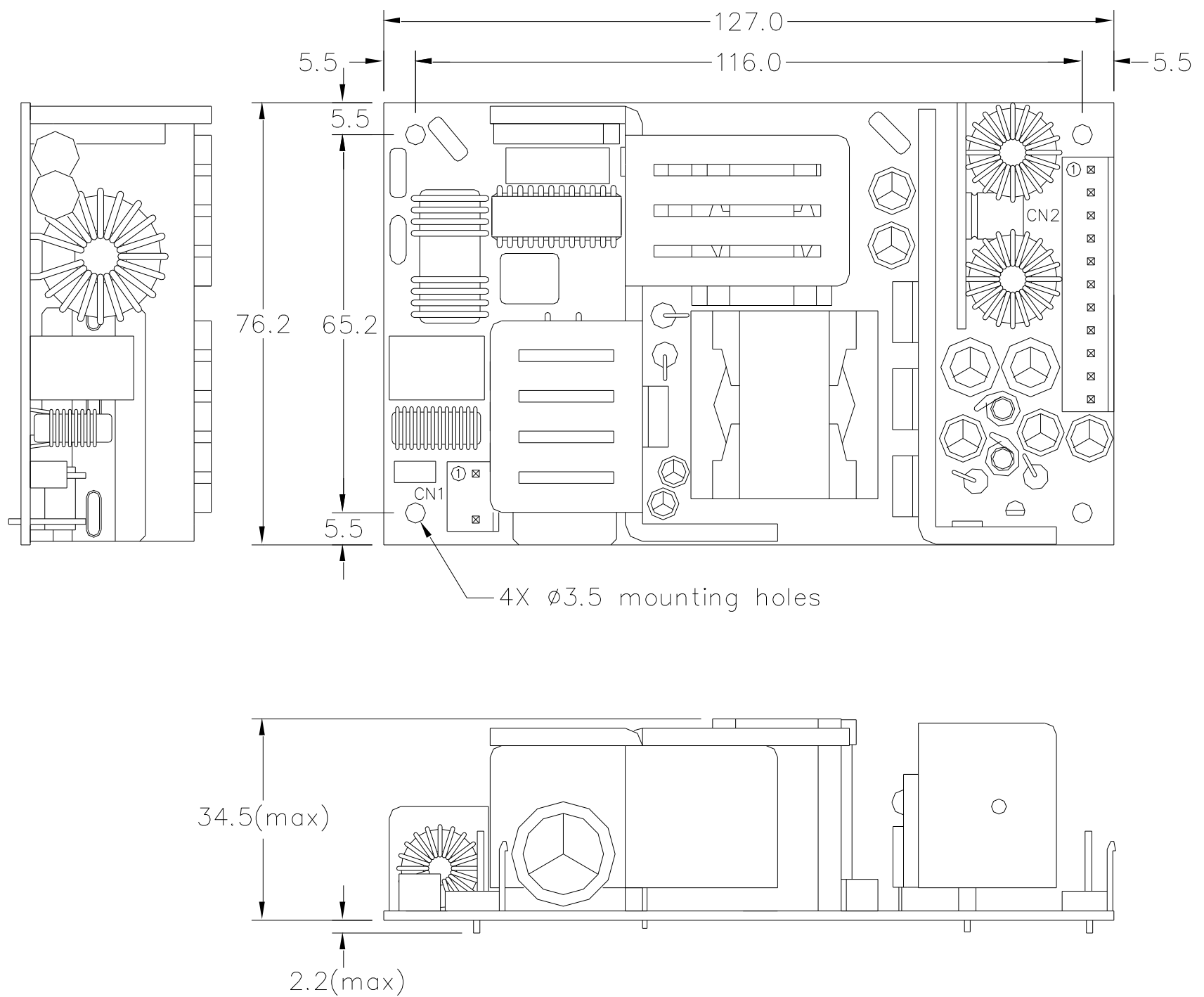
Model No.	Output Voltage	Minimum Load	Convection			Forced air 30CFM			Total Regulation	Ripple & Noise(Vp-p)
			Maximum Load	Combined Load Max.	Max. Po	Maximum Load	Combined Load Max.	Max. Power		
PW-150B-2Y01X	V2 +12V	0.15A	6A	-	120W	7.5A	-	150W	±5%	120mV
	V1 +24V	0.15A	3.5A			4.5A			±5%	240mV
PW-150B-2Y02X	V2 +5V	0A	10A	-	120W	12A	-	150W	±5%	50mV
	V1 +24V	0.15A	3.5A			4.5A			±5%	240mV
PW-150B-2Y03X	V2 +5V	0A	10A	-	120W	12A	-	150W	±5%	50mV
	V1 +12V	0.15A	6A			7.5A			±5%	120mV
PW-150B-3Y01X	V3 +5V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V2 +12V	0.15A	6A			7.5A			±5%	120mV
	V1 +24V	0.15A	3.5A			4.5A			±5%	240mV
PW-150B-3Y02X	V3 +3.3V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V2 +5V	0A	10A			12A			±5%	50mV
	V1 +12V	0.15A	6A			7.5A			±5%	120mV
PW-150B-3Y03X	V3 +3.3V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V2 +5V	0A	10A			12A			±5%	50mV
	V1 +24V	0.15A	3.5A			4.5A			±5%	240mV

Model No.	Output Voltage		Minimum Load	Convection			Forced air 30CFM			Total Regulation	Ripple & Noise(Vp-p)
				Maximum Load	Combined Load Max.	Max. Po	Maximum Load	Combined Load Max.	Max. Power		
PW-150B-4Y01X	V4	+3.3V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V3	+5V	0A	10A			12A			±5%	50mV
	V2	+12V	0.15A	6A			7.5A			±5%	120mV
	V1	+24V	0.15A	3.5A			4.5A			±5%	240mV
PW-150B-4Y02X	V4	+3.3V	0A	10A	105W	120W	12A	125W	150W	±5%	50mV
	V3	+5V	0A	10A			12A			±5%	50mV
	V2	+12V	0.15A	6A			7.5A			±5%	120mV
	V1	-12V	0.15A	1.5A			2.5A			±8%	120mV
PW-150B-4Y03X	V4	+3.3V	0A	10A	105W	120W	12A	125W	150W	±5%	50mV
	V3	+5V	0A	10A			12A			±5%	50mV
	V2	+15V	0.15A	2.5A			3.5A			±5%	150mV
	V1	-15V	0.15A	1.25A			1.75A			±8%	150mV
PW-150B-4Y04X	V4	+3.3V	0A	10A	105W	120W	12A	125W	150W	±5%	50mV
	V3	+5V	0A	10A			12A			±5%	50mV
	V2	+12V	0.15A	6A			7.5A			±5%	120mV
	V1	+48V	0.15A	0.5A			1.0A			±8%	480mV
PW-150B-4Y05X	V4	+5V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V3	+12V	0.15A	6A			7.5A			±5%	120mV
	V2	+24V	0.15A	3.5A			4.5A			±5%	240mV
	V1	-12V	0.15A	1.5A			1.5A			±5%	120mV
PW-150B-4Y06X	V4	+5V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V3	+12V	0.15A	6A			7.5A			±5%	120mV
	V2	+24V	0.15A	3.5A			4.5A			±5%	240mV
	V1	-15V	0.15A	1.0A			1.0A			±8%	150mV
PW-150B-4Y07X	V4	+3.3V	0A	10A	75W	120W	12A	90W	150W	±5%	50mV
	V3	+5V	0A	10A			12A			±5%	50mV
	V2	+12V	0.15A	6A			7.5A			±5%	120mV
	V1	+28V	0.15A	3A			4.0A			±5%	280mV

Note: 1. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

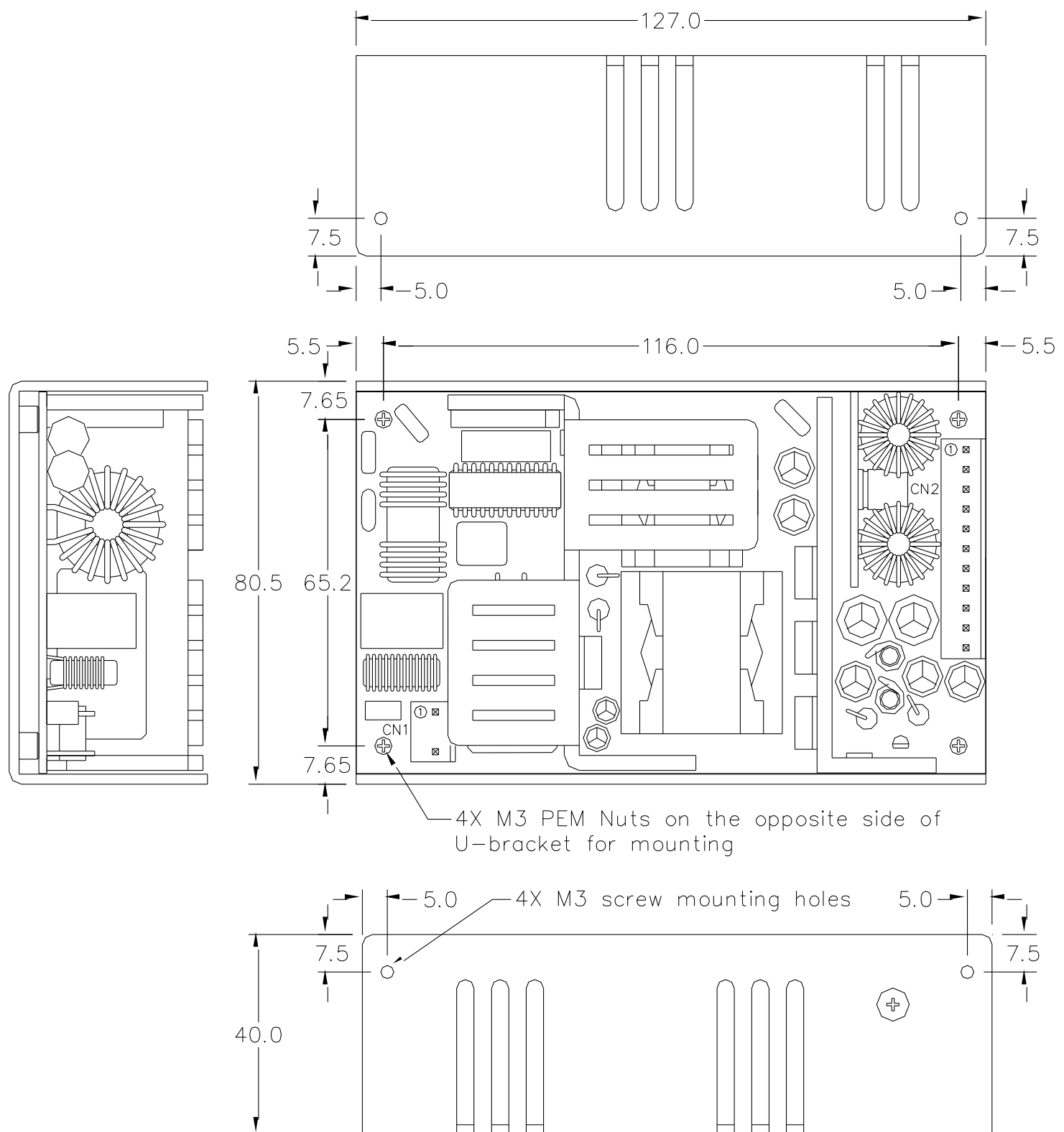
MECHANICAL SPECIFICATION

Open frame type PW-150B-XYXX series



MECHANICAL SPECIFICATION

U-Channel type PW-150B-XYXXU series



MECHANICAL SPECIFICATION

MATCHING CONNECTORS

CN1: Input Connector

JST B3P-VH-B pitch: 7.92mm or equivalent, mates with JST VHR-3N or equivalent

Pin #	Signal
1	AC Line
2	AC Neutral

CN2: Output Connector

JST B11P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-11N or equivalent

OUTPUT CONNECTOR CONFIGURATION (CN2)

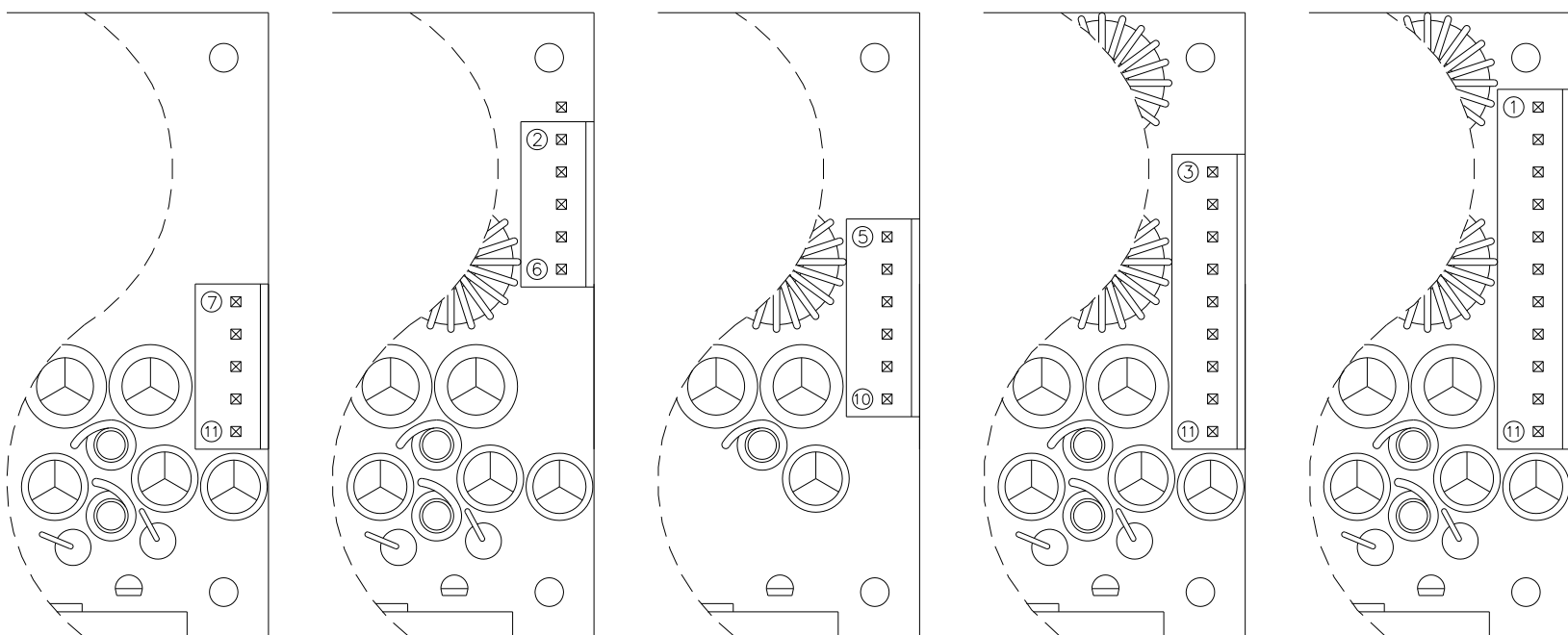
2Y01

2Y02

2Y03

3Y01

Others



CN2 Pin assignment

Model No. \ Pin No.	1	2	3	4	5	6	7	8	9	10	11
PW-150B-2Y01X	-	-	-	-	-	-	GND	GND	+12V	+12V	+24V
PW-150B-2Y02X	-	+24V	GND	GND	+5V	+5V	-	-	-	-	-
PW-150B-2Y03X					+5V	+5V	GND	GND	+12V	+12V	-
PW-150B-3Y01X			GND	GND	+5V	+5V	GND	GND	+12V	+12V	+24V
PW-150B-3Y02X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	-
PW-150B-3Y03X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	-	-	+24V
PW-150B-4Y01X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	+24V
PW-150B-4Y02X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	-12V
PW-150B-4Y03X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	+15V	+15V	-15V
PW-150B-4Y04X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	+48V
PW-150B-4Y05X	-12V	-12V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	+24V
PW-150B-4Y06X	-15V	-15V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	+24V
PW-150B-4Y07X	+3.3V	+3.3V	GND	GND	+5V	+5V	GND	GND	+12V	+12V	+28V