

Model name

ZWQ 80-5225/

Series Name Output Voltage Option
Output Wattage blank: PCB type
L: L-shape metal plate type
A: with-cover type

Features

- Built-in Active Filter , PFHC type (EN61000-3-2)
- Compact, thin, PCB type Power Supply with quad output
- Wide output voltage range
V2.V3 output: $\pm 12V/\pm 15V$ selectable
24V(30V) available by connecting in series
V4 output: 2V,3.3V,5V covered by 5V output (2.0-5.25V)
- Equipped with Remote ON/OFF control
- Wide input voltage range: 85-265VAC
- 1 year warranty

PC Board Type Power Supply

Specifications

1. Input voltage range	85~265VAC (47~63Hz), 120~370VDC universal input
2. Power factor	0.99 (typ) 100VAC at full load, 0.93(typ) 200VAC at full load
3. Output voltage range	V1 : +5V = +5.0~+5.25V V2 : +12V / +15V selectable V3 : -12V / -15V selectable V4 : +5V = +2.0V~5.25V, +12V = +11.4V~12.6V, +24V = 22.8V~25.2V
4. Cooling	Convection cooling
5. Operating ambient temperature	Convection cooling -10°C~+40°C:100%, +60°C:50% (Open frame type, Standard mounting)
6. Withstand voltage	Input-output : 3kVAC (20mA) , Input-chassis : 2kVAC (20mA) , Output-chassis : 500VAC (100mA) for 1 min
7. Safety standard	ZWQ80 : Approved by UL1950 , CSA950(C-UL) , EN60950(TUV) , VDE0160(TUV) ZWQ130 : Conforms to UL1950, CSA950, EN60950, VDE0160
8. CE marking	Conforms to low voltage directive
9. EMI	Meets EN55011-B, EN55022-B, FCC-B, VCCI-B
10. PFHC	Meets EN61000-3-2
11. Functions	Over voltage protection, Over current protection, Remote on/off control

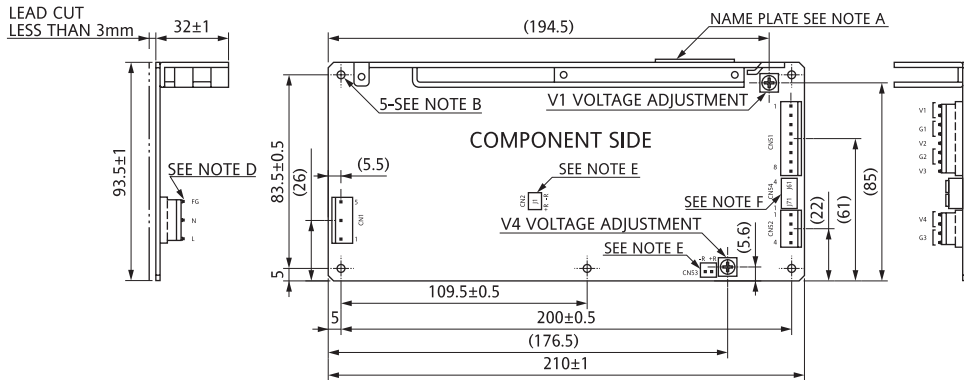
Product lineup

Model name		CH	Nominal output voltage	Min. output current (at peak)	Max. output current	Max. peak output current	Total max. output power	UL	CSA	EN
ZWQ80	ZWQ80-5225	V1	5V	0.9A(1.4A)	8.0A	10.0A	80W (Peak 104W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V2	12(15)V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V3	-12(-15)V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V4	5V	0A	7.0A	9.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ZWQ80-5222	V1	5V	0.9A(1.4A)	8.0A	10.0A	80W (Peak 104W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V2	12(15)V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V3	-12(-15)V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V4	12V	0A	3.0A	4.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ZWQ80-5224	V1	5V	0.9A(1.4A)	8.0A	10.0A	80W (Peak 104W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V2	12(15)V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V3	-12(-15)V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V4	24V	0A	1.5A	2.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZWQ130	ZWQ130-5225	V1	5V	1.5A(2.1A)	15A	19.0A	130W (Peak 170W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V2	12(15)V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V3	-12(-15)V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V4	5V	0A	10.0A	12.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ZWQ130-5222	V1	5V	1.5A(2.1A)	15.0A	19.0A	130W (Peak 170W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V2	12(15)V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V3	-12(-15)V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V4	12V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ZWQ130-5224	V1	5V	1.5A(2.1A)	15.0A	19.0A	130W (Peak 170W)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V2	12(15)V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V3	-12(-15)V	0A	4.0A	5.0A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		V4	24V	0A	2.0A	2.5A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

○: Safety standard approved

ZWQ-SERIES

ZWQ80



(Unit: mm)

= NOTE =

- A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- B: 5-ø3.5 HOLES FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
- C: KEEP THE DISTANCE MORE THAN 4mm BETWEEN PCB EDGE AND CUSTOMER'S CHASSIS.
- D: FG IS FOR SAFETY GROUND CONNECTION.
- E: REMOTE ON/OFF CONTROL CONNECTOR (CN2, 53) : B2B-XH-AM (J.S.T.)
MATCHING HOUSING : XHP-2 (J.S.T.)
MATCHING TERMINAL : BXH-001T-P0.6 (J.S.T.) OR SXH-001T-P0.6 (J.S.T.)
*CN2 IS NORMALLY SHORTED BY JM-2W-96 (J.S.T.).
- F: CONNECTOR TO CHANGE V2, V3 OUTPUT VOLTAGE(CN54) : B4B-XH-AM (J.S.T.)
J61 SHORT : V2 OUTPUT VOLTAGE IS +12V. (*)
J61 OPEN : V2 OUTPUT VOLTAGE IS +15V.
J71 SHORT : V3 OUTPUT VOLTAGE IS -12V. (*)
J71 OPEN : V3 OUTPUT VOLTAGE IS -15V.
*J61 AND J71 ARE NORMALLY SHORTED BY JM-2W-96(J.S.T.)

CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B3P-5-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B8P-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN52)	B4P-VH	J.S.T.	1

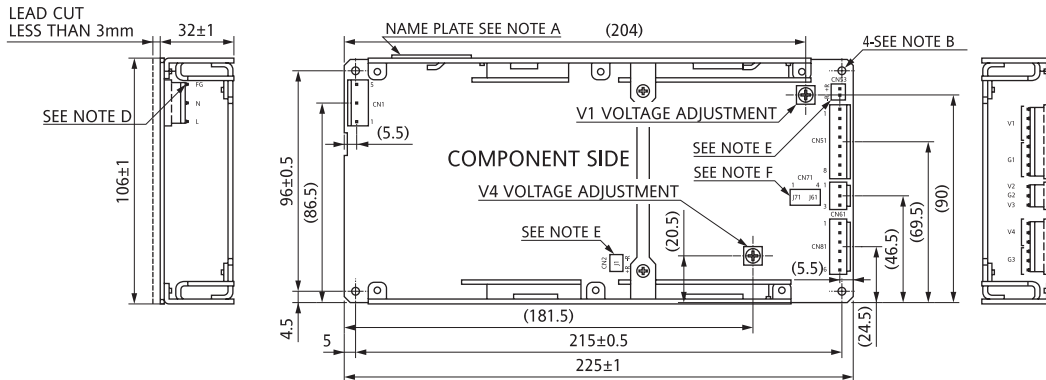
*OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

MATCHING HOUSINGS & PINS (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-8N	J.S.T.	1
SOCKET HOUSING (CN52)	VHR-4N	J.S.T.	1
TERMINAL PINS (CN1, 51, 52)	SVH-21T-P1.1	J.S.T.	15

HAND CRIMPING TOOL : YC-160R MANUFACT : J.S.T.

ZWQ130



(Unit: mm)

= NOTE =

- A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- B: 4-ø3.5 HOLES FOR CUSTOMER'S CHASSIS MOUNTING HOLES. ALL MUST BE SCREWED IN ORDER TO CONFORM THE VIBRATION SPEC.
- C: KEEP THE DISTANCE MORE THAN 4mm BETWEEN POWER SUPPLY EDGE AND CUSTOMER'S CHASSIS.
- D: FG IS FOR SAFETY GROUND CONNECTION.
- E: REMOTE ON/OFF CONTROL CONNECTOR (CN2, 53) : B2B-XH-AM (J.S.T.)
MATCHING HOUSING : XHP-2 (J.S.T.)
MATCHING TERMINAL : BXH-001T-P0.6 (J.S.T.) OR SXH-001T-P0.6 (J.S.T.)
*CN2 IS NORMALLY SHORTED BY JM-2W-96 (J.S.T.).
- F: CONNECTOR TO CHANGE V2, V3 OUTPUT VOLTAGE(CN71) : B4B-XH-AM (J.S.T.)
J61 SHORT : V2 OUTPUT VOLTAGE IS +12V. (*)
J61 OPEN : V2 OUTPUT VOLTAGE IS +15V.
J71 SHORT : V3 OUTPUT VOLTAGE IS -12V. (*)
J71 OPEN : V3 OUTPUT VOLTAGE IS -15V.
*J61 AND J71 ARE NORMALLY SHORTED BY JM-2W-96(J.S.T.)

CONNECTORS USED:

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
PIN HEADER (INPUT SIDE CN1)	B3P-5-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN51)	B8P-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN61)	B3P-VH	J.S.T.	1
PIN HEADER (OUTPUT SIDE CN81)	B8P-VH	J.S.T.	1

*OUTPUT CURRENT OF EACH CONNECTOR PIN MUST BE LESS THAN 5A.

MATCHING HOUSINGS & PINS (NOT INCLUDED WITH THE PRODUCT):

PART DESCRIPTION	PART NAME	MANUFACT.	QTY
SOCKET HOUSING (CN1)	VHR-5N	J.S.T.	1
SOCKET HOUSING (CN51)	VHR-8N	J.S.T.	1
SOCKET HOUSING (CN61)	VHR-3N	J.S.T.	1
SOCKET HOUSING (CN81)	VHR-6N	J.S.T.	11
TERMINAL PINS (CN1, 51, 61, 81)	SVH-21T-P1.1	J.S.T.	20

HAND CRIMPING TOOL : YC-160R MANUFACT : J.S.T.