Triple Output 75W, 100W





Conformity to RoHS Directive

Series name

This means that, in conformity with EU Directive 2002/95/ EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Product Line up

Output	75W				100W							
Voltage	Output C	Output Current / Model Ou		Current / Model Output Curre		Current / Model	Output Current / Model		Output Current / Model		Output Current / Model	
+5V	8.0A		8.0A		8.0A		13A	JWT100-522	13A		13A	
-5V	-		-		0.5A		—		-	- JWT100-5FF	1A	
+12V	4.0A		-		4.0A		5.5A		-		5.5A	
-12V	0.5A	JW175-522	-	JW175-5FF	-	JW175-525	1A		-		-	JW1100-525
+15V	-		3.2A		-		—		4.5A		—	
-15V	-		0.5A		-		-		1A		-	

JWT

JWT75

TDK·Lambda

JWT75 Specifications

MODEL			JWT75-522			JWT75-5FF			JWT75-525				
ITEMS	/UNITS	СН	1	2	3	1	2	3	1	2	3		
	Voltage Range (*3)	V				AC85 - 2	65 or DC	120 - 330					
	Frequency (*3)	Hz	47 - 63										
	Power Factor (100/200VAC)(typ)(*2)		0.99 / 0.93										
Input	Efficiency (typ) (*2)	%		72									
	Current (100/200VAC)(typ)(*2)	Α	1.2 / 0.6										
	Inrush Current (100/200VAC)(typ) (*2)(*4)	Α		14 / 28, Ta=25°C, cold start									
	Leakage Current (*11)	mA		0.75mA MAX,0.2mA (typ) at 100VAC / 0.44mA (typ) at 230VAC									
	Nominal Voltage	VDC	+5	+12	-12	+5	+15	-15	+5	+12	-5		
	Minimum Current (*1)	Α	0.8	()	0.8		<u>,</u>	0.8	C)		
	Maximum Current	Α	8	4	0.5	8	3.2	0.5	8	4	0.5		
	Maximum Power	W	40	48	6.0	40	48	7.5	40	48	2.5		
	Total Allowable Power	W					75						
	Voltage Setting Accuracy	%	-	±	5%	-	±	5%	-	±5	5%		
Output	Maximum Line Regulation (*6)	mV	20	4	8	20	6	0	20	48	20		
	Maximum Load Regulation(*7)	mV	40	100	150	40	120	150	40	10	0		
	Temperature Coefficient			V1,	V2: Less	than 0.029	%/℃, V3	B: Less that	an 0.03% /	°C			
	Maximum Ripple & Noise (0 to $+65^{\circ}C$)(*5)		120	15	50	120	1:	50	120	15	0		
	Maximum Ripple & Noise (-10 to 0°C)(*5) mVp-		160	18	30	160	18	30	160	18	0		
	Hold-up Time (typ) (*10)	ms					20						
	Voltage Adjustable Range	VDC	5.0 - 5.25 Fixed		5.0 - 5.25	Fix	ked	5.0 - 5.25	Fix	ed			
	Over Current Protection (*8)	Α	more than 105%										
Function	Over Voltage Protection (*9)	VDC	5.7 - 7.0	5.7 - 7.0 - 5.7 - 7.0 - 5.7 - 7.0					,				
1 diletion	Parallel Operation												
	Series Operation												
	Operating Temperature (*12)	°C	-10 to +65 (-10 to +50 : 100%, +65 : 50%)										
	Storage Temperature	°C	-30 to +85										
	Operating Humidity	%RH		30 to 90									
Environment	Storage Humidity	%RH					10 to 95						
	Vibration		At no	operating	, 10 - 55 ⊦	lz (sweep	for 1min)	19.6m/s²	constant X	K, Y, Z 1h	each.		
	Shock (In package)					Less	than 196.	1m/s²					
	Cooling					Conv	ection co	oling					
Isolation	Withstand Voltage		Input - FG	: 2kVAC(20	mA), Input	- Output: 3	kVAC (20m	A), Output	- FG: 500VA	AC(100mA)	for 1min.		
	Isolation Resistance			More the	an 100M	Ω at 25℃	and 70%l	RH Outpu	t - FG … 5	00VDC			
	Safety Standards (*13)			Approv	ed by UL	60950-1, C	CSA C22.	2 No.609	50-1, EN6	0950-1			
Standards						Designe	d to meet	DENAN					
e tandai do	PFHC				D	esigned to	o meet El	V61000-3	-2				
	EMI			Designe	d to meet	EN55011	/ EN5502	22-B, FCC	C-ClassB,	VCCI-B.			
Mechanical	Weight (typ)	g					600						
moonumoa	Size (W x H x D)	mm			42 x	92 x 188 (Refer to c	outline dra	wing)				

(*1) For V2, V3 stability, to keep V1 minimum output current.

(*2) At 100/200VAC, Ta=25 $^\circ\!C$ and maximum output power.

(*3) For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 - 240VAC (50/60Hz).

(*4) No applicable for the in-rush current to noise filter less than 0.2ms.

(*5) Measure with JEITA RC-9131 probe, bandwidth of scope :100MHz.

(*6) 85 - 265VAC, constant load.

(*7) Minimum load - full load, constant input voltage.

(*8) Constant current limit with automatic recovery.

(*9) OVP circuit will shut down all outputs, manual reset (line recycle).

(*10) At 100/200VAC nominal output voltage and maximum total output power.

(*11) Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.

(*10) Ratings - Derating at standard mounting.

Load (%) is percent of maximum output power or maximum output current, whichever is greater.
 As for other mountings, refer to derating curve.

(*13) As for DENAN, designed to meet at 100VAC.

Recommended EMC Filter



RSEL-2002W Please refer to "TDK-Lambda EMC Filters" catalog.

TDK·Lambda

SEE NOTE B

SEE NOTE A

74

SEE NOTE B

SEE NOTE

5.5 unit: mm

179

SEE NOT

22.5

Outline Drawing

[JWT75] (Block Terminal Type)

NOTES

- A: MODEL NAME, OPTION, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS. B: M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (4) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6m/m.
- 607/m. 04.5 HOLE FOR CUSTOMER CHASSIS MOUNTING. (USE M4 MOUNTING SCREW.) REMOTE ON/OFF CONTROL CONNECTOR --- OPTION B2B-XH-AM (JST) С
- D :

JWT75-* /A

JWT75-* //R

JWT75-* //RA

OPTIONAL MODELS

MODEL JWT75-* /B

JWT75 * //C

JWT75-* //RB JWT75-* /RC COVER REMOTE ON/OFF

Output Derating

PROHIBIT

ACCESSORIES

*COVER FOR BARRIER STRIP TERMINAL *HOUSING: XHP-2 (JST), TERMINAL: BXH-001T-P0.6 (JST) OR SXH-001T-P0.6 (JST) --- OPTION

(Connector Type)





NAME PLATE

179

*

2

12

(14)

CONNECTOR INPUT/OUTPUT

5

ĉ

MATERIAL PCB : GLASS COMPOSITE

NOTES

A: MODEL NAME, OPTION, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS. B: M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (4) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6m/m

CEM-3 (UL94V-0)

- 6m/m. C: Ф4.5 HOLE FOR CUSTOMER CHASSIS MOUNTING. (USE M4 MOUNTING SCREW.) D: REMOTE ON/OFF CONTROL CONNECTOR --- OPTION B2B:XH-AM (JST) E: CONNECTOR: 5277-10A (MOLEX) F: CONNECTOR: 5289-4A (MOLEX)

ACCESSORIES

(STANDARD MOUNTING)

- * HOUSING: 5196-10 (MOLEX), TERMINAL: 5194PBT(MOLEX) * HOUSING: 5199-04 (MOLEX), TERMINAL: 5194PBT(MOLEX) * HOUSING: XHP-2 (JST), TERMINAL: BXH-001T-P0.6 (JST) OR SXH-001T-P0.6 (JST) -- OPTION





JWT 75/A



Recommended standard mounting is method (A). Method (B) and (C) are also possible. Refer to the derating below. Please do not use installation method (E). where the PCB will be on the top side and heat will be trapped inside the unit. Method (D) is possible for JWT75, but prohibit for JWT100. In the following derating curve, the maximum output current is considered to be 100% .

JWT



JWT100

TDK·Lambda

JWT100 Specifications

MO			- JWT100-522			JWT100-5FF			JWT100-525				
ITEMS	/UNITS	СН	1	2	3	1	2	3	1	2	3		
	Voltage Range (*3)	V				AC85 - 2	65 or DC	120 - 330	1 1				
	Frequency (*3)	Hz					47 - 63						
	Power Factor (100/200VAC)(typ)(*2)					(0.99 / 0.9	3					
Input	Efficiency (typ) (*2)	%		72									
	Current (100/200VAC)(typ)(*2)	Α	1.4 / 0.7										
	Inrush Current (100/200VAC)(typ) (*2)(*4)	Α	14 / 28, Ta=25°C, Cold Start										
	Leakage Current (*11)	mA		0.75mA MAX, 0.2mA (typ) at 100VAC / 0.44mA (typ) at 230VAC									
	Nominal Voltage	VDC	+5	+12	-12	+5	+15	-15	+5	+12	-5		
	Minimum Current (*1)	Α	1.3	()	1.3)	1.3	()		
	Maximum Current	Α	13	5.5	1	13	4.5	1	13	5.5	1		
	Maximum Power	W	65	66	12	65	68	15	65	66	5		
	Total Allowable Power	W					100						
	Voltage Setting Accuracy	%	-	±	5%	-	<u>±</u>	5%	-	±٤	5%		
Output	Maximum Line Regulation (*6)	mV	20	4	8	20	6	0	20	48	20		
	Maximum Load Regulation(*7)	mV	40	100	150	40	120	150	40	10)0		
	Temperature Coefficient			V1,	V2: Less	than 0.029	%/°C, V3	: Less that	an 0.03% /	°C			
	Maximum Ripple & Noise (0 to +50°C)(*5)	mVp-p	120	150		120	1	50	120	15	50		
	laximum Ripple & Noise (-10 to 0°C)(*5) m		160	180		160	18	30	160	18	30		
	Hold-up Time (typ) (*10)	ms					20						
	Voltage Adjustable Range	VDC	5.0 - 5.25 Fixed		5.0 - 5.25 Fixed		ked	5.0 - 5.25	Fix	ed			
	Over Current Protection (*8)	A	more than 105%										
Function	Over Voltage Protection (*9)	VDC	5.7 - 7.0	5.7 - 7.0 - 5.7 - 7.0 - 5.7 - 7.0					-	•			
	Parallel Operation						-						
	Series Operation						-						
	Operating Temperature (*12)	℃°			-10 to	+65 (-10 to	o +50 : 10	0%, +65	: 50%)				
	Storage Temperature	°C	-30 to +85										
	Operating Humidity	%RH					30 to 90						
Environment	Storage Humidity	%RH					10 to 95						
	Vibration		At no o	perating,	10 - 55Hz	(sweep fo	or 1min) 1	9.6m/s² c	onstant X,	Y, Z 1hou	ır each.		
	Shock (In package)					Less	than 196.	1m/s²					
	Cooling					Conv	ection co	oling					
Isolation	Withstand Voltage		Input - FG:	: 2kVAC(20	mA), Input	- Output: 3	VAC (20m	A), Output	- FG: 500VA	C(100mA)	, for 1min.		
	Isolation Resistance			More the	an 100M	Ω at 25°C	and 70%	RH Outpu	t - FG … 5	00VDC			
	Safety Standards (*13)			Approv	ed by UL	60950-1, C	CSA C22.	2 No.609	50-1, EN6	0950-1			
Standards						Designe	d to meet	DENAN					
	PFHC				C	esigned to	o meet El	N61000-3	-2				
	EMI			Designe	d to meet	EN55011	/ EN5502	22-B, FCC	C-ClassB,	VCCI-B.			
Mechanical	Weight (Typ)	g					720						
	Size (W x H x D)	mm			48 x 9	92 x 203 (F	Refer to C	outline Dra	awing)				

(*1) For V2, V3 stability, to keep V1 minimum output current.

(*2) At 100/200VAC, Ta=25 $^\circ\!C$ and maximum output power.

(*3) For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 - 240VAC (50/60Hz).

(*4) No applicable for the in-rush current to noise filter less than 0.2ms.

(*5) Measure with JEITA RC-9131 probe, bandwidth of scope: 100MHz.

(*6) 85 - 265VAC, constant load.

(*7) Minimum load - full load, constant input voltage.

(*8) Constant current limit with automatic recovery.

(*9) OVP circuit will shut down all outputs, manual reset (line recycle).

(*10) At 100/200VAC nominal output voltage and maximum total output power.

(*11) Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.

(*12) Ratings - Derating at standard mounting.

Load (%) is percent of maximum output power or maximum output current, whichever is greater.
 As for other mountings, refer to derating curve.

(*13) As for DENAN, designed to meet at 100VAC.



Please refer to "TDK-Lambda EMC Filters" catalog.

TDK·Lambda

Outline Drawing

[JWT100] (Block Terminal Type)

NOTES

- A: MODEL NAME, OPTION, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE
- CURRENT AND COUNTRY OF MANUFACTURE F6(®) ARE SHOWN HERE IN ACCORDANCE WITH THE AC(L) SPECIFICATIONS. B : M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (5) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6m/m. C: \$4.5 HOLE FOR CUSTOMER CHASSIS MOUNTING. (USE M4 MOUNTING SCREW.) D : REMOTE ON/OFF CONTROL CONNECTOR --- OPTION B2B-XH-AM (JST)

ACCESSORIES

*COVER FOR BARRIER STRIP TERMINAL *HOUSING: XHP-2 (JST), TERMINAL: BXH-001T-P0.6 (JST) OR SXH-001T-P0.6 (JST) --- OPTION



(Connector Type)





MATERIAL PCB : GLASS COMPOSITE CEM-3 (UL94V-0)

NOTES

- A : MODEL NAME, OPTION, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS. B : M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (5) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6m/m.

- ACT FROM DE INTO FOMER SUFFLY ET MORE THAN 6m/m. C : \$4.5 HOLE FOR CUSTOMER CHASSIS MOUNTING. (USE M4 MOUNTING SCREW.) D : REMOTE ON/OFF CONTROL CONNECTOR --- OPTION B28-XH-AM (UST) E : CONNECTOR: 5227-10A (MOLEX)

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	:	CONNECTOR:	5289-4A (MOLEX)

ACCESSORIES

- *HOUSING: 5196-10 (MOLEX), TERMINAL: 5194PBT(MOLEX) *HOUSING: 5199-04 (MOLEX), TERMINAL: 5194PBT(MOLEX) *HOUSING: XHP-2 (JST), TERMINAL: BXH-001T-P0.6 (JST) OR SXH-001T-P0.6 (JST) -- OPTION



unit: mm

unit: mm



MOUNTIG C

PROHIBIT

PROHIBIT

Output Derating

B,C



MOUNTING B

· All specifications are subject to change without notice.

MOUNTING A

(STANDARD MOUNTING

Block Diagram

[JWT75, JWT100]

Input



JWT

- •Circuit mode and swtching frequency Switching circuit : Single - ended forward topology 140kHz (Fixed) PFHC Circuit : Active filter 90kHz (Fixed)
- •Fuse rating JWT75, JWT100 : 3.15A

TDK·Lambda

JWT Series Instruction Manual

BEFORE USING THE POWER SUPPLY UNIT

Pay attention to all warnings and cautions before using the unit. Incorrect usage could lead to an electric shock, damage to the unit or a fire hazard.

▲ WARNING and CAUTION

- Do not modify.
- Do not touch the internal components, they may have high voltage or high temperature. You may get electric shock or burned.
- When the unit is operating, keep your hands and face away from it, you may get injured by an accident.
- This power supply is primarily designed and manufactured to be used and enclosed in other equipment. Stick the WARN-

ING label for users on the system equipment and describe the notice in the instruction manual.

- Never operate the unit under over current or shorted conditions for 30 seconds or more which could result in damage or insulation failure. There is no possibility for fire or burning.
- Confirm connections to input/output terminals are correct as indicated in the instruction manual.

Note: CE MARKING

CE Marking, when applied to a product covered by this handbook, indicates compliance with the low voltage directive (73/23/EEC) as modified by the CE Marking Directive (93/68/ EEC) which complies with EN60950

1. Terminal Explanation

JWT75, JWT100 (Block terminal type)



1) CH1

 Block terminal type -
V1 : CH1 + Output terminal
G1 · CH1 — Output terminal

	output terminai
 Connector type 	pe - (7A max. / pin

	ypc	١.	17	max. /	Pill
CN51-1.2	: CH	1	+	Output	pin

- CN51-3,4 : CH1 Output pin
- ② CH2
 Block terminal type –
- BIOCK terminal type –
 V2 : CH2 + Output terminal
- G2 : CH2, CH3 Common Ground
- Connector type (7A max. / pin)
- CN51-5,6 : CH2 + Output pin
- CN51-7,8 CH2, CH3 Common Ground

3 CH3

- Block terminal type –
 G2 : CH2, CH3 Common Ground
- V3 : CH3 Output terminal
- Connector type -
- CN51-7, 8 : CH2, CH3 Common Ground CN51-9, 10 : CH3 — Output pin
- Frame Ground
 Block terminal type -
 - FG
 - FG
 - Connector type –
 CN1 1
 - JNT T

JWT75, JWT100 (Connector Type)



- ⑥ Input terminal Neutral line – Block terminal type –
 - N
- Connector type -
- CN1 4
- ⑦ Safety earth : ④
- ⑧ Output voltage of CH1 adjustment trimmer
- 9 Output monitoring indicator (Green LED)
- (i) Remote ON/OFF control (Option) : + R
- (1) Remote ON/OFF control (Option) : R

* Connector (JST) for Remote ON/OFF control

Connector	Housing	Terminal Pin
B2B - XH - AM	XHP - 2	BXH - 001T - P0.6 or SXH - 001T - P0.6

*Input & Output connector (MOLEX)

	JWT75/JWT100						
	Connector	Housing	Terminal Pin				
Input	5289 - 4A	5199 - 04	5194				
Output	5277 - 10A	5196 - 10	5194				

2. Terminal Connecting Method

- Input must be off when making connections.
- Connect FG terminal to ground terminal of the equipment.
- Output current of each connector pin must be less than 7A. (For connector type)
- The output load line and input line shall be separated

and twisted to improve noise sensitivity.

- Remote ON/OFF control lines shall be twisted or use shielded wire.
- Use the output connector specified in outline drawing.
 Also, use recommended crimping tool.

JWT75, JWT100



Safety Earth :

For safety, Connect
 mounting holes on bottom of chassis to ground terminal of the equipment. Screw must be used M4. on the bottom of chassis.

3. Explanation of Functions and Precautions

Input Voltage Range

Input voltage range is single phase 85-265VAC (47-63Hz) or 120-330VDC. Input voltage which is out of specification may cause unit damage.

2 Output Voltage Range

V.ADJ trimmer on the front panel side can adjust the output voltage of CH1 within the range. To turn the trimmer clockwise, the output voltage will be increase. Output voltage range is within 5-5.25V. Note over voltage protection (OVP) function may trigger if the output voltage is increased excessively.

Inrush Current

JWT

This series has used Power Thermistor to protect the circuit from Inrush Current. Please carefully select input switch and fuse in cases of the high temperature and re-input the power.

4 WATTBOX

This series designed as a WATTBOX. You are flexibly adjust output power of each channel within the limit of the maximum total output power in specification.

WTOTAL≧WCH1 + WCH2 + WCH3

- WCH1 : Less than maximum CH1 output power.
- WCH2 : Less than maximum CH2 output power.
- WCH3 : Less than maximum CH3 output power.

Minimum Output Current

The output voltage of all channel is stabilized when minimum output current of CH1 is more than 10% of maximum output current.

Over Voltage Protection (OVP)

The OVP function (inverter shut down method, manual reset type) built into CH1 output only. When OVP of CH1 channel triggers, the all outputs will be shut down. The input shall be removed for a few minutes, and then re-input for recovery of the output to recover. OVP setting shall be fixed and not to be adjusted externally.

1 Over Current Protection (OCP)

Constant current limiting, automatic recovery. OCP function operates when the output current exceeds 105 % of maximum output current on specification. The output will be automatically recovered when the overload condition is canceled. Never operate the unit under over current or shorted conditions over 30 seconds which could result in damage.

8 Output Ripple & Noise

The standard specification for maximum ripple value is measured according to measurement circuit specified by JEITA-RC9131. When load lines are longer, ripple will becomes larger. In this case, electrolytic capacitor, film capacitor, etc. might be necessary to use across the load terminal. The output ripple cannot be measure accurately if the probe ground lead of oscilloscope is too long.



Remote ON/OFF Control (Optional Spec.)

Remote ON/OFF control function is available as option with model name followed by /R. Using this function allows the user to turn the all outputs on and off without having to turn the AC input on and off. It is controlled by the voltage applied to +R and -R. This circuit is in the Secondary (output) side of the power supply unit. Do not connect in the Primary (input) side. And this circuit is isolated from the output by a photocoupler.



The control mode is shown below.

+ R & - R terminal condition	Output Condition
SW ON (Higher than 4.5V)	ON
SW OFF (Lower than 0.8V)	OFF

External voltage level: E	External resistance: R
4.5 - 12.5VDC	No required
12.5 - 24.5VDC	1.5k Ω

4. Isolation Test / Withstand Voltage

Isolation Test

Isolation resistance between output and FG (chassis) shall be more than $100M\Omega$ at 500VDC. For safety operation, voltage setting of DC isolation tester must be done before the test. Ensure that it is fully discharged after the test.

Output - FG (chassis)



2 Withstand Voltage

This series is designed to withstand 3.0kVAC between input and output, 2.0kVAC between input and FG (chassis) and 500VAC between output and the FG (chassis) each for 1 minute. When testing withstand voltage, set current limit of the withstand voltage test equipment to 20mA

(Output - FG (chassis): 100mA). The applied voltage must be gradually increased from zero to the testing value and then gradually decreased for shut down. When timer is used, the power supply may be damaged by high impulse voltage at timer switch on and off. Connect input and output as follows.



5. Mounting Directions

40°C

45℃

50°C

55°C

100

100

80

60

80

60

60

60

_

_

100

80

60

Output Derating according to the Mounting Directions

Recommended standard mounting is method (A). Method (B) and (C) are also possible. Refer to the derating below. Please do not use installation method (E), where the PCB will be on the top side and heat will be trapped inside the unit. Method (D) is possible for JWT75, but prohibit for JWT100. In the following derating curve, the maximum output current is considered to be 100%.





Open Frame (Without cover)

Model		JW	T75		JWT100					
Amb. Temp.	А	В	С	D	Α	В	С	D		
-10 to +35℃	100	100	100	100	100	100	100	-		
40°C	100	100	100	83	100	100	100	-		
45°C	100	100	83	67	100	100	83	-		
50°C	100	83	67	50	100	83	67	-		
55°C	83	67	50	-	83	67	50	-		
60°C	67	50	-	-	67	50	-	-		
65°C	50	-	-	-	50	-	-	-		

000	01	00			01	
65°C	50	-	-	-	50	
With Cover						
Model	JWT75					
Amb. Temp.	Α	В	С	D	Α	
−10 to +35°C	100	100	100	100	100	
35℃	100	100	80	83	100	
			1		1	

JWT100

С

100

80

60

D

_

В

100

80

60

_

2 Mounting Method

- (1) This is a convection cooling type power supply. In the consideration for the heat radiation and safety. Please take a distance more than 15mm between the power supply and the peripheral parts. When lining up multiple units, please make sure to place them 15mm or more apart from each other.
- (2) The maximum allowable penetration of mounting screws is 6mm.
- (3) Recommended torque for mounting screw.

M4 screw : 1.27 N · m (13.0 kgf · cm)



3 Optional sheet metal parts for mounting

Optional sheet metal mounting parts are available to meet following mounting methods. Contact to DL sales representatives.



4. Wiring Method

- The output load line and input line shall be separated and twisted to improve noise sensitivity.
- Use all lines as thick and short as possible to make lower impedance.
- Noise can be eliminated by attaching a capacitor to the

load terminals.

- For safety and EMI considerations, connect FG terminal of JWT series to mounting set ground terminal.
- The recommended torque for the terminal piece: JWT75, JWT100 (M3 Screws) : 0.49 N • m (5.0 kgf • cm)

5. External Fuse Rating

Refer to the following fuse rating when selecting the external fuses that are to be used on input line. Surge current flows when line turns on. Use slow-blow fuse or time-lug type fuse. Do not use fast-blow fuse. Fuse rating is specified by in-rush current value at line turn-on. Do not select the fuse according to input current (rms.) values under the actual load condition.

JWT75, JWT100 : 3.15A

6. Before concluding that the unit is at fault...

Before concluding that the unit is at fault, make the following checks.

- Check if the rated input voltage is connected.
- Check if the wiring of input and output is correct.
- Check if the wire material is not too thin.
- Check if the output voltage control (V.ADJ) is properly adjusted.
- If you use function of the Remote ON/OFF control, check if the Remote ON/OFF control connector is not

opened.

- Check if the output current and output wattage dose not exceed specification.
- Check if the output current of CH1 is more than 10% of maximum output current.
- Audible noise can be heard during dynamic-load operation.
- Audible noise can be heard when input voltage waveform is not sinusoidal wave.

7. Notes

1) Over voltage Category II.

2) Radio Interference Suppression Test is not performed.