E Series ECW-007

AC Input

Multi Output, General-Purpose

UL/CSA/TÜV Approved

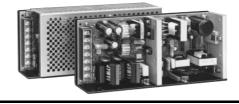
ECW-007 TYPE SPECIFICATIONS AND STANDARDS

Part No.				ECW-007		
Rated output voltage V1		V1	5V • 3A			
and current*1 V2		V ₂	24V • 6A(Peak current 10A)			
Maximun	n output power	,	W	159[Peak current output: 255]		
Input con	ditions					
Input volt	age Eac*2		V	85 to 265[Rating: 100 to 120/200 to 240]		
Input fred	quency		Hz	47 to 66[Rating: 50 to 60](Single phase)		
Input curi	rent		Α	2.1typ./3.8max.[AC.100V] 0.9typ./1.6max.[AC.240V]		
Fuse ration	ng		Α	6.3 [AC.250V Built-in]		
Surge current A		Α	12typ./17max.[AC.100V, 1st surge current.] 31typ./40max.[AC.240V, 1st surge current.]			
Leakage current mA		mA	0.6typ./1max.[AC.100V, 60Hz(Electrical Appliance and Material Safety Law)] 0.6typ./0.75max.[AC.240V, 60Hz(UL,IEC)]			
Power fa	ctor			0.95typ.[AC.100/240V]		
Efficience	,	%	100V	77typ.		
Efficiency	y	%	240V	80typ.		
Output ch	naracteristics					
Output vo	oltage Edc		V	5(V ₁)	24(V ₂)	
Voltage v	/ariable range E	Edc	V	Fixed	Fixed	
Maximun	n output current	t .	Α	3	6(Peak current 10A, 10s max.)	
Minimum	output current		Α	0	0	
Overvolta	age threshold E	dc	V	5.6 to 6.9	30.1 to 35	
Overcurrent threshold			Α	3.1min.	10.1min.	
-	Source effect		%	2max.(0.4typ.)[Within the input voltage range]	7max.(0.4typ.)[Within the input voltage range]	
	Load effect		%	4max.(1typ.)[10% to maximum current]	16max.(14typ.)[10% to maximum current]	
Voltage	Temperature	effect	%	2max.(1typ.)[Ambient temperature: -10 to +40°C]	4max.(1typ.)[Ambient temperature: -10 to +40°C]	
stability	Drift(Time effe	ect)	%	1max.(0.4typ.)[25°C, input and output ratings, after input voltage ON for 30min to 8h]	3max.(1typ.)[25°C, input and output ratings, after input voltage ON for 30min to 8h]	
	Recovery		%/ms	±10max.(Voltage variation)/5(Reset time)[10% to max	<u> </u>	
Total effe			%	±5max.(2typ.)	±10max.(9typ.)	
		mV	100max.	600max.		
Ripple no			mV	150max.	800max.	
Start up t			ms	1500max.(1000typ.)/600max.(300typ.)[AC.100/240V]		
Hold up t			ms	20min.(30typ.)/20min.(35typ.)[AC.100/240V]		
	functions	1		(31-)/		
Indicator				No		
	age protection			Voltage shut-down type, recovers upon reset(interval approx. 5min), set value fixed.		
	ent protection			Winker operation, automatic recovery.		
Remote (•			No		
Remote sensing				No		
Parallel operation				Impossible		
Series operation				Impossible		
Output voltage external variable function			ınction	No		
Standard						
Safety standards				UL1950, CSA 950-95(C-UL), EN60950(TÜV) approved, Electrical Appliance and Safety Control Law meet.		
Noise terminal voltage				FCC-Class B, VCCI-Class B, EN55011-B, EN55022-B meet.		
Input harmonics current requirement			ent	EN61000-3-2 meet.		
Construc		•		1		
External dimensions mm			mm	50×95×220[H×W×L]		
		kg	0.9typ.			
Mounting method			Can be attached to 1 side.			
Case material				Frame: Aluminum/Cover: Zinc-plated iron		
.1 0	at rating/mavim) is determined 10 to : 10°C. Deveting is required when	and a debte this term and meaning	

^{*1} Current rating(maximum output current) is determined –10 to +40°C. Derating is required when used outside this temperature range.

PRODUCT IDENTIFICATIONS

Input and output style	L-shape frame type	With cover type
Terminal block	ECW-007D	ECW-007DC
Connector(Vertical)	FCW-007F	ECW-007EC



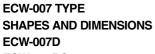


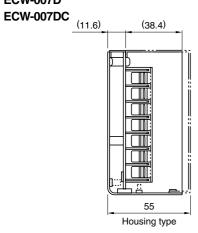
^{*2} The use of input voltage outside of that which is prescribed may result in the power supply specifications not being met or cause damage.

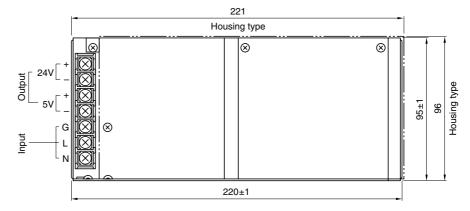
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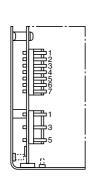
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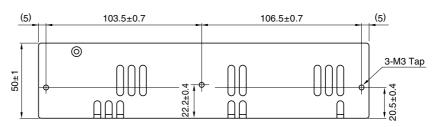






ECW-007E ECW-007EC

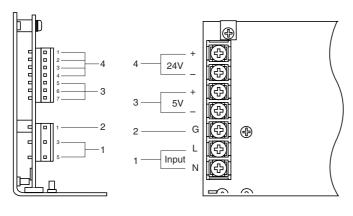




 $\label{eq:definition} \begin{array}{c} \text{Dimensions in mm} \\ \pm 1 \text{mm}: \text{without specified dimensions} \\ \text{Third-angle projection} \end{array}$

Manufacturer	Compatible housing	Compatible connector
JST	VHR-5N	SVH-21T-P1.1
JST	VHR-7N	SVH-21T-P1.1
	JST	

TERMINAL DESIGNATIONS AND FUNCTIONS



INPUT AND OUTPUT TERMINALS

	Terminal No.	Voltage
	1	+24V
	2	+24V
	3	–24V
Output connector	4	–24V
	5	+5V
	6	–5V
	7	–5V
	1	G(Frame ground)
Input connector	3	L(ACin)
	5	N(ACin)

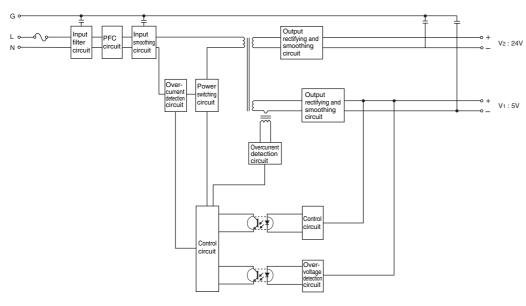
Terminal No	o. Designations and functions	
1	AC input terminals(L, N)	Connect to AC.100V or 200V single phase input line.
2	Frame ground terminal(G)	Connect to earth ground.
3	DC output terminals(5V, $+$, $-$)	Connect to load.
4	DC output terminals(24V, +, -	Connect to load.

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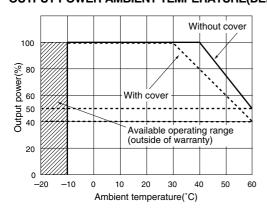
BLOCK DIAGRAM



COMMON SPECIFICATIONS

Temperature and hum	nidity		
-	Operating(°C)	-10 to +60[Please refer to derating curve.]	
Temperature range	Operating available(°C)	−20 to −10	
	Storage(°C)	-30 to +70	
Llumidit unanga	Operating(%)RH	- 20 to 95[Maximum wet-bulb temperature: 35°C, without dewing]	
Humidity range	Storage(%)RH	- 20 to 95[Maximum wet-bulb temperature, 55 C, without dewing]	
Vibration and shock			
Vibration	5 to 10Hz	All amplitude 10mm[3 directions, each 1h]	
VIDIALIOII	10 to 200Hz	Acceleration 19.6m/s ² (2G)[3 directions, each 1h]	
Shock	Acceleration	588m/s ² (60G)[3 directions, each 3 times]	
SHOCK	Pulse duration	11±5ms	
Withstand voltage and	l insulation resistance		
	Input terminal to Case(G)	Eac: 2.5kV, 1min[Normal temperature, normal humidity, cutout current 20mA]	
Withstand voltage	Input terminal to output terminal	Eac: 3kV, 1min[Normal temperature, normal humidity, cutout current 20mA]	
	Output terminal to Case(G)	Eac: 500V, 1min[Normal temperature, normal humidity cutout current 100mA]	
	Input terminal to Case(G)		
Insulation resistance	Input terminal to output terminal	Edc: 500V, $100M\Omega$ min. [Normal temperature, normal humidity]	
	Output terminal to Case(G)		

OUTPUT POWER-AMBIENT TEMPERATURE(DERATINGS)



LINEUP

Part No.	Input/output interface	External shape
ECW-007D	Terminal	Open frame
ECW-007DC	Terminal	Cover type
ECW-007E	Connector	Open frame
ECW-007EC	Connector	Cover type

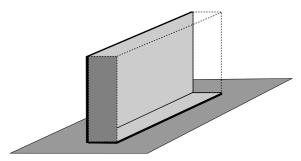


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INSTALLATIONS

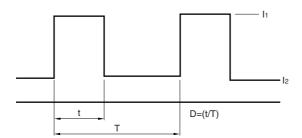


Single-side installation in vertical direction

NOTES ON USE

the like.

It is possible to flow peak current as 24V load current.
 A value exceeding a continuous rated value should be used under the following conditions.
 In case of a use not under the conditions, the power supply may be damaged.



Peak current value: $I_1 \le 10A$ Time for peak current value: $t \le 10$ sec. Effective current: $\sqrt{D \times h^2 + (1-D) \times l_2^2} \le 6A$

- For air cooling without blower, install the power supply so as to cause a thermal convection.
 In addition, provide a minimum 10mm distance between respective surfaces of the power supply and surrounding equipment or
- This product has an internal adjustment trimmer.
 Please do not touch it that can result in damage caused by any change of the setting.

