

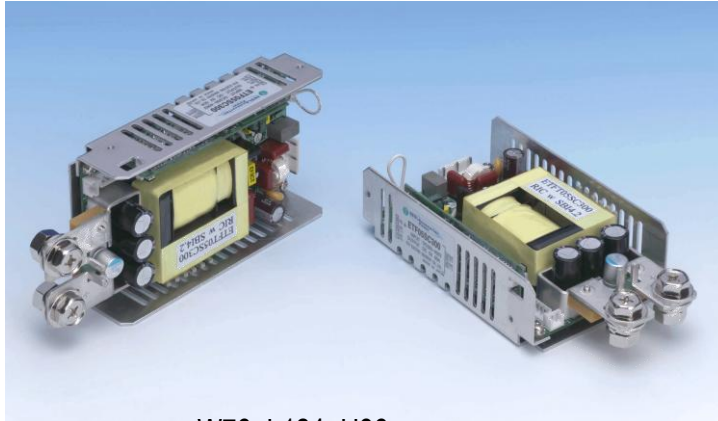


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HIGH QUALITY SWITCHING POWER SUPPLIES

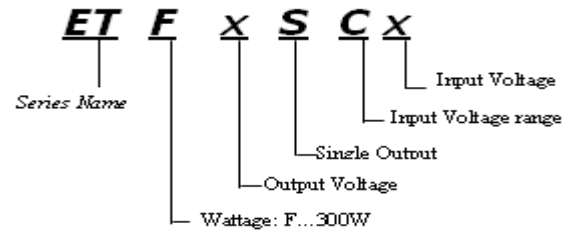
DC/DC SWITCHING POWER SUPPLY
DC INPUT 300
SINGLE OUTPUT
300 WATTS

ETF SERIES



W76×L124×H36mm

General Description



Features

1. Light weight, compact size
2. High efficiency, high reliability
3. Over voltage and over current protection

DC INPUT: 300V

Input Characteristics	Unit	Models					
		ETF3.3SC300	ETF05SC300	ETF12SC300	ETF15SC300	ETF24SC300	ETF48SC300
Input Voltage	Vdc	DC300V					
Input Voltage Range *1	vdc	DC200-400V					
Input Current	A	1.05					
MTBF	H	205,000 Min. (by EIAJ RCR-9102)					
EFFICIENCY (typ.) *1	%	94%	95%	96%	96.5%	96%	96%

Output Characteristics	Unit	Models					
		ETF3.3SC300	ETF05SC300	ETF12SC300	ETF15SC300	ETF24SC300	ETF48SC300
Output Voltage	Vdc	3.3	5	12	15	24	48
Output Current	A	60	60	25	20	12.5	6.3A
Voltage Adjust Range	%	Rated Output Voltage×(0.9~1.1)					
Ripple and Noise (max.)	mV	150	150	220	250	340	580
Regulation							
a. Statistic Line Regulation (max.)	mV	20	40	48	60	120	192
b. Statistic Load Regulation (mx.)	mV	40	45	48	60	135	192
c. Temperature Coefficient	%/°C	0.9	1.5	3.6	4.5	7.5	14.4
d. Drift	mV	20	40	48	60	135	192
f. Recovery Time	mS	20[mS]Typ. (output current change 25% to 75%)					
Rise up time	mS	500mS (maximum) at 25C and rated input/output					
Hold up time	mS	Not specified					



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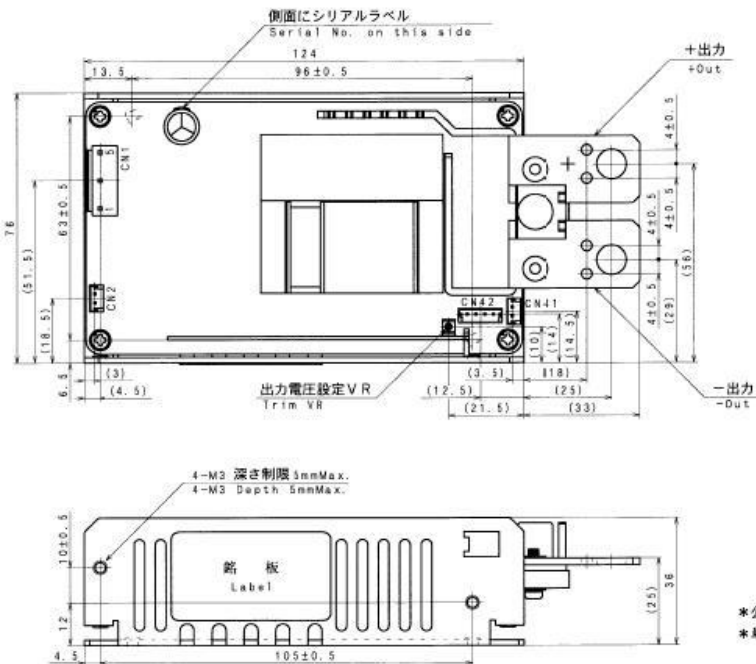
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Function/Protection	
Over current Protection (min)	Built In (Latch type)
Over voltage Protection	Built In (Latch type)
Remote Sense	Available
Remote Control	Available
Power Fail	Not Available
Power Factor Correction	Not Available
Environmental Specification	
Operating Temperature	-10 to +50°C (at 100% load)
Operating Humidity	20-90%/RH (non-condensing)
Storage Temperature	-20 to +85°C
Storage Humidity	20 to 90%/RH
Withstanding Voltage	Primary-Secondary AC3000V 1minute (Sens Current 10[mA]) Primary-Frame Ground AC2000V 1minute (Sens Current 10[mA]) Secondary-Frame Ground AC1000V 1minute (Sens Current 20[mA])
Isolation Resistance	P-S-FG 100[MΩ]Min. DC500[V]
Vibration	5-10Hz: 10mm double amplitude, 10-55Hz: 19.6m/s ² , each along X, Y, Z axes (non-operating)
Shock	30G
Cooling	Convection
Environmental Agencies	
SAFETY (Will be approved)	UL : UL60950 C-UL: CSA C22.2 No.950 VDE TUV
Mechanical Specification	
Dimension [mm]	76 (W) x124 (D) x36 (H) mm (Not include output terminal)
Weight (typical)	430g

- *1 at Rated Input and Rated Output
- *2 at Output current quick change 25% to 75%

Mechanical Drawing



コネクタNo.	用途	適合ハウジング	適合コンタクト	メーカー
CN1	入力	VHR-5N	SVH-25T-P1.1	日圧
CN2	リモートコントロール	EHR-2	SEH-0611-P0.1	日圧
CN41	リモートセンシング	EHR-2	SEH-0611-P0.1	日圧
CN42	リモートコントロール	EHR-4	SEH-0611-P0.1	日圧

コネクタ接続			
ピンNo.	CN1	ピンNo.	CN2
1	+V in	1	-RC1
3	-V in	2	+RC1
5	FG		
ピンNo.	CN41	ピンNo.	CN42
1	-S	1	AUX
2	+S	2	+RC
		3	-RC
		4	SG

*公差: ±1
*単位: [mm]

