

ETG-SC 600W



#### **FEATURES**

- Light weight, compact size
- High efficiency, high reliability
- Over voltage and over current protection
- Isolated Power Supply



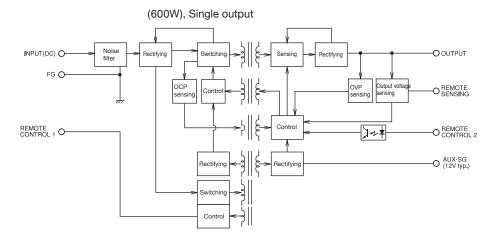
	MODEL/CHANNEL	Unit	ETG3.3- SC300	ETG05- SC300-U1	ETG12- SC300	ETG24- SC300	
OUTPUT (Single)	Output Voltage	Vdc	3.3	5	12	24	
	Output Current	А	120	120	50	25	
	Line Regulation	mV	20	40	48	120	
	Load Regulation	mVp	40	45	48	135	
	Ripple and Noise	mVp	150 220 340				
	Voltage Adjustment Range	-	±10% of rated output voltage				
	Rise Time	-	500 mS (maximum)				
	Temp. Coefficient	mV	0.9	1.5	3.6	7.5	
	Drift	mV	20	40	48	135	
	Dynamic Load Regulation	mV	250	250	600	1200	
	Efficiency	%	94	95	95	95	
	Rated Output Power	W	396		600		
INPUT	Input Voltage	V	DC300				
	Input Voltage Range	-	DC200 to 400				
rotection	Over Current Protection	А	Constant current drop, automatic recovery after removing the overload. No guarantee provided for continuous overcurrent or short-circuit status for 1 minute or longer.  Constant current drop, automatic recovery after removing the overload. Output shuts do when output voltage drops to around 5V. Turn on at least 1 minute after the input voltage shutdown to restart.				
	Over Voltage Protection	-	Turn on at least 1 minute after the input voltage shutdown to restart				
	Remote Sense	-	Available (with load line form output terminal, connect + and - sensing terminals to + and - terminals of load line, respectively)				
	Remote Control	-	Available				
	Safety	-	UL60950-1, CSA60950-1, EN60950-1 certified (5V) CE (LV directive) compliant				
	Ref. MTBF	Н	185,910	184,195	172,243	172,243	



	MODEL/CHANNEL	Unit		
Environment	Operating Temperature	°C	-10 to +71°C without thermal shock	
	Operating Humidity	%	20 to 90% RH (non-condensing)	
	Storage Temperature	°C	-20 to +85°C without thermal shock	
	Withstand Voltage		AC3000V for 1 minute without defect, faradic current=10mA	
Primary-Frame Ground		%	AC2000V for 1 minute without defect, faradic current=10mA	
	Secondary-Frame Ground	-	AC1000V for 1 minute without defect, faradic current=100mA	
	Isolation Resistance Primary - Secondary - Case	100 M(0) (minimum)		
	Shock	-	Impact force: 196 m/s^2	
	Cooling	-	Convection cooling	
	Vibration	-	5 to 10Hz: 10mm double amplitude, 10 to 55Hz: acceleration 19.6m/s^2 20 minute cycle for 60 minutes each along X, Y, Z axes (non-operating)	
	Storage Humidity	-	20 to 90% RH (non-condensing)	
Dimension	Size(WxHxD) / Weight	mm/g	Open-frame type / approx. 715 g	

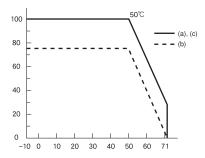
### **Block Diagram**

#### 600W



# **Temperature Derating Curve**

#### 600W



- (a) When ambient temperature goes above 50 [°C], an output should be lowered to the degree that the derating curb shown in the left figure is satisfied (by 3.5% per degree °C when the ambient temperature is between 50 and 71 [°C])
- (b) When the ambient temperature is 50 [°C] or below, the unit should be used under a load condition of up to 75%. When ambient temperature goes above 50 [°C], an output should be lowered to the degree that the derating curb shown in the left figure is satisfied (by 3.5% per degree C when the ambient temperature is between 50 and 71 [°C])
- (c) If measured temperature rise of T1 copper plate, T1 input choke coil, and heatsink is up to the maximum rise specified below, the power supply unit can be operated under a load condition of 100% or below until the ambient temperature reaches to 50 [\*C]. (A measure, such as placing the unit on a surface with high heat release and using cooling fan, should be taken so that the unit is operated at or below the maximum temperature rise.) If the measured temperatures are above the maximum rise, the unit should be operated with the same derating as (b)

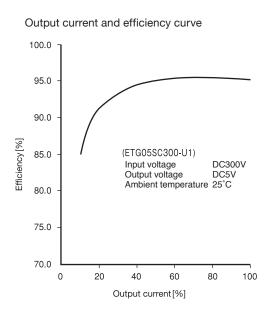
Maximum temperature rise: T1 copper plate: temperature rise ( t) 60 [°C] T1 coil: temperature rise ( t) 60 [°C] Heatsink; temperature rise ( t) 40 [°C]

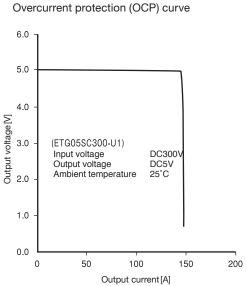


## **Output Current/Overcurrent**

### 600W

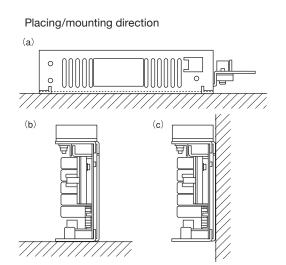
(300W), Single output

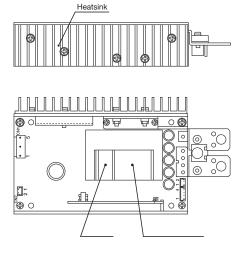




# **Placing/Mounting Direction**

### 600W



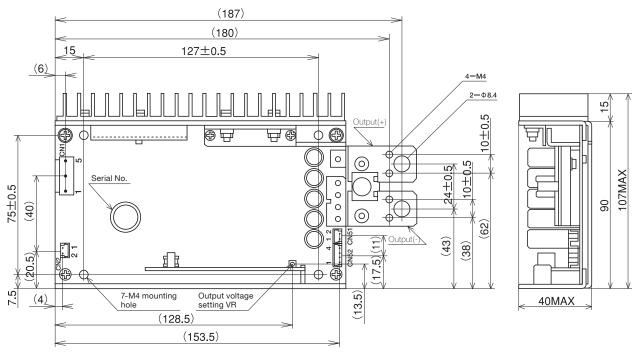


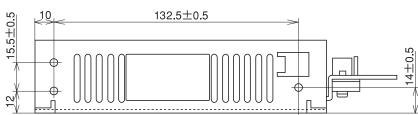


## **Dimension Diagram (mm)**

### 600W

### (600W), Single output





#### Connector joint