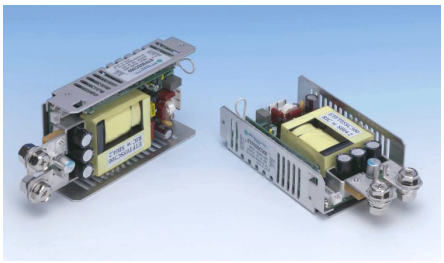
ETP-SC 450W



FEATURES

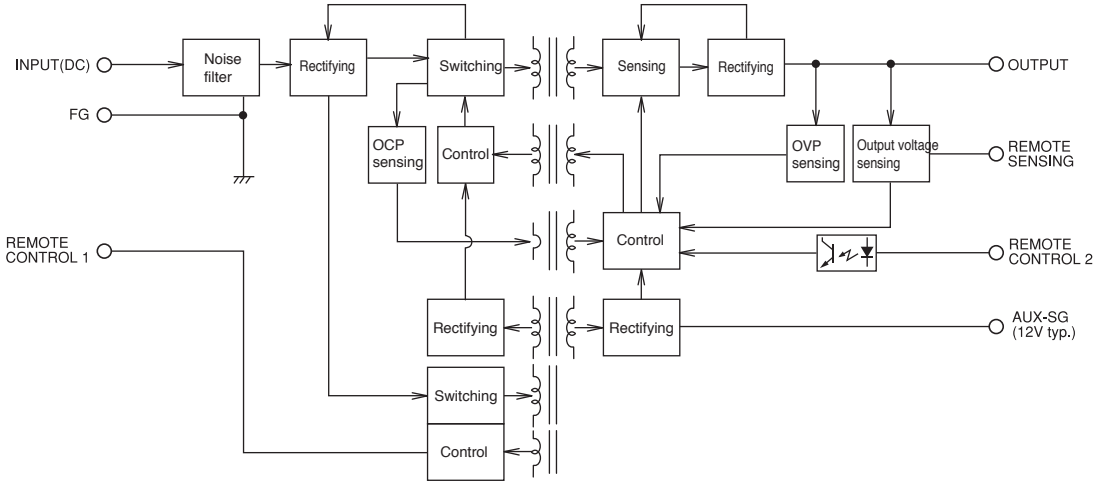
- Light weight, compact size
- High efficiency, high reliability
- Over voltage and over current protection
- **95.5% Efficiency**

RoHS

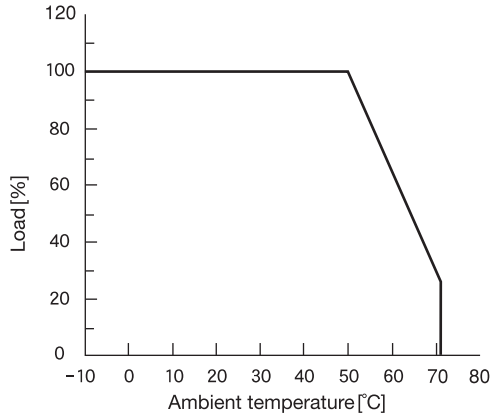
	MODEL/CHANNEL	Unit	ETP24-SC300
OUTPUT (Single)	Output Voltage	Vdc	24
	Output Current	A	19
	Line Regulation	mV	120
	Load Regulation	mVp	135
	Ripple and Noise	mVp	340
	Voltage Adjustment Range	-	±10% of rated output voltage (at output connector)
	Rise Time	-	500mS (maximum)
	Temp. Coefficient	mV	4.8
	Drift	mV	9.6
	Efficiency	%	95.5
INPUT	Input Voltage	V	DC300
	Input Voltage Range	-	DC200 to 400
Protection	Over Current Protection	A	Operate at 105% (minimum) of the rated current, constant current drop, automatic recovery after removing overload. Output shuts down when output voltage drops to around 5V. Turn on at least 1 minute after the input voltage shutdown to restart
	Over Voltage Protection	-	Operate at 115% (minimum) of the rated voltage 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 CE (LV directive) compliant
	Ref. MTBF	-	208,000

	MODEL/CHANNEL	Unit	
Environment	Operating Temperature	°C	-10 to +71 °C without thermal shock (see output derating table)
	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=50mA
	Isolation Resistance Primary - Secondary - Case	-	100MΩ (minimum) by DC500V insulation tester
	Shock	-	Impact force 196m/s^2
	Ref. Frequency	-	160
	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
	Storage Humidity	-	10 to 90%RH (non-condensing)
Dimension	Size(WxHxD) / Weight	mm/g	Chassis module/open-frame type / approx. 530g

Block Diagram 450W

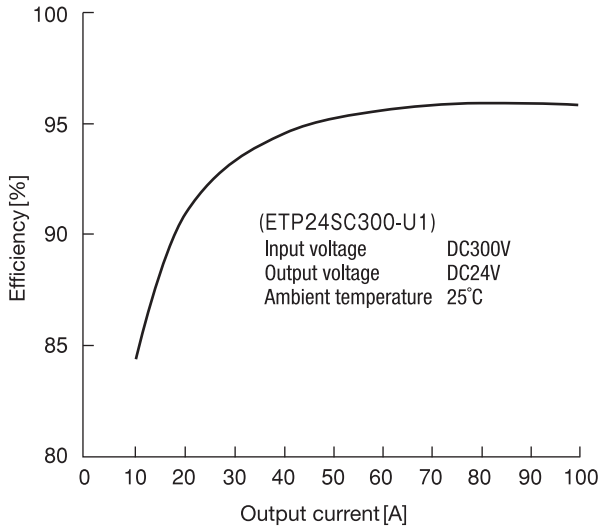


Temperature Derating Curve 450W

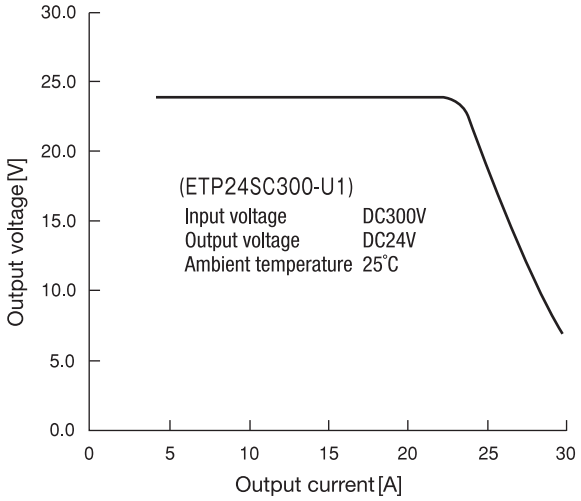


Output Current/Overcurrent 450W

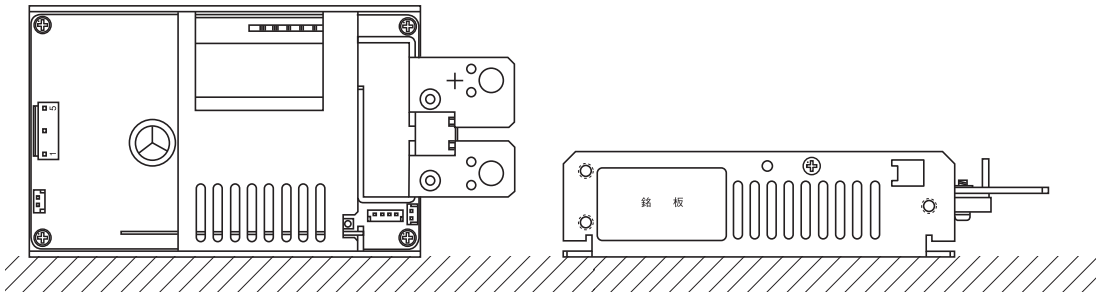
Output current and efficiency curve



Overcurrent protection (OCP) curve

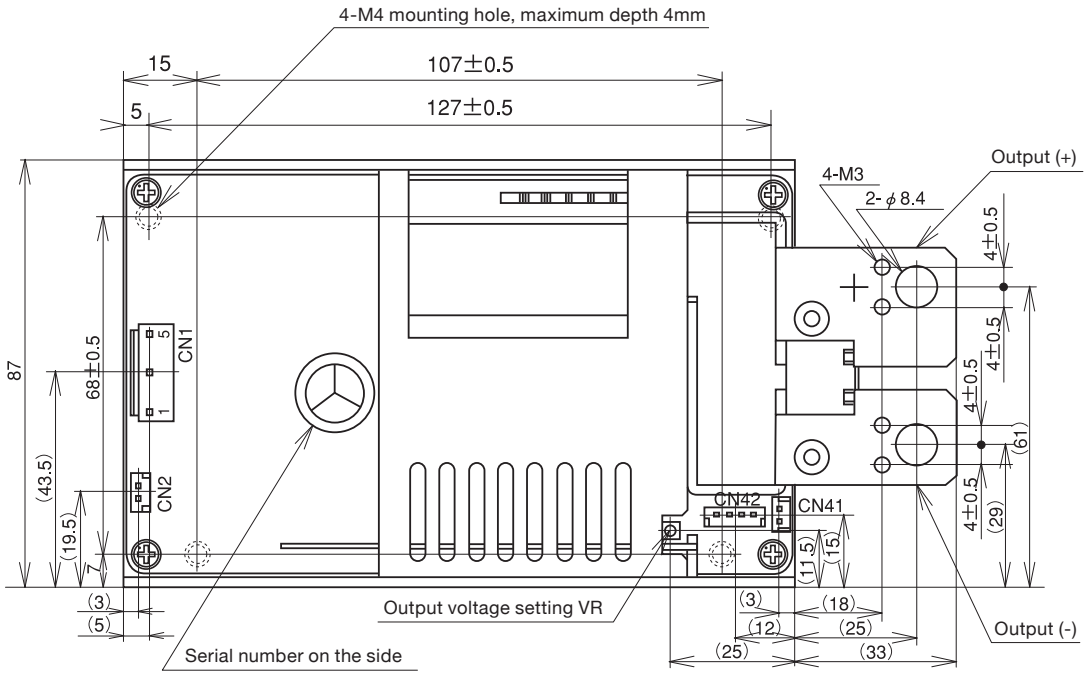


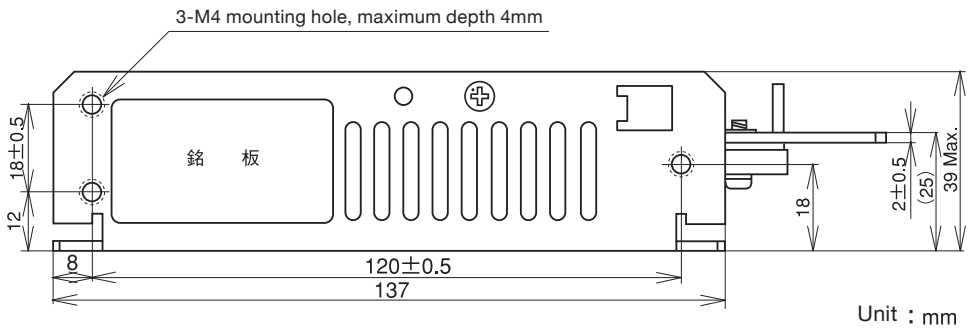
Placing/Mounting Direction 450W



· The power supply should be placed/mounted in either of the directions shown above.
· When multiple power supply units are operated side by side, make sure that the temperature around each unit is within the specified operating temperature range on the specifications before using the units.

Dimension Diagram (mm) 450W





Unit : mm
Tolerance : ±1

Connector joint

Pin No.	CN1
1	+Vin
3	−Vin
5	FG

Pin No.	CN2
1	−RC1
2	+RC1

Pin No.	CN41
1	−S
2	+S

Pin No.	CN42
1	AUX
2	+RC2
3	−RC2
4	SG