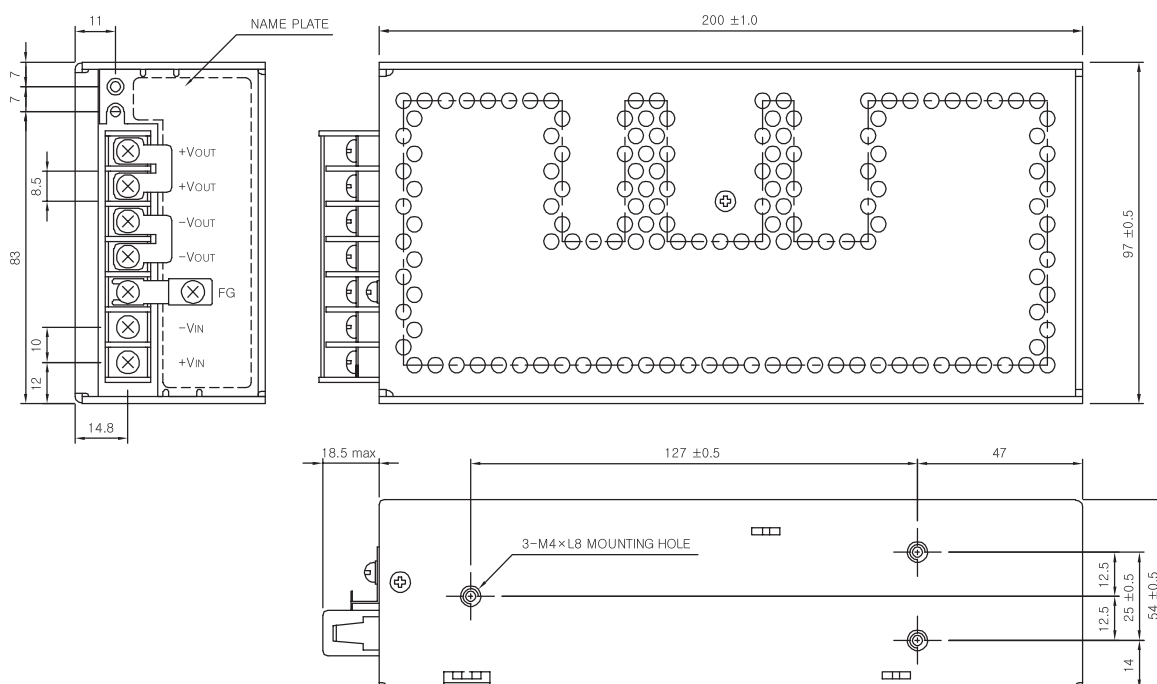


## DS SERIES (SINGLE OUTPUT)

## DS100-S SPECIFICATIONS

MODEL		DS100-1205	DS100-1212	DS100-1215	DS100-1224	DS100-2405	DS100-2412	DS100-2415	DS100-2424	
INPUT	VOLTAGE	DC12V (9~18V) / 15A				DC24V (19V~36V) / 10A				
	VOLTAGE [V]	5	12	15	24	5	12	15	24	
OUTPUT	CURRENT [A]	18	9	7	4.5	20	9	7	4.5	
	REGULATION, LINE [mV]	25 Max	60 Max	75 Max	120 Max	25 Max	60 Max	75 Max	120 Max	
	REGULATION, LOAD [mV]	50 Max	120 Max	150 Max	240 Max	50 Max	120 Max	150 Max	240 Max	
	RIPPLE [mVp-p]	50 Max	120 Max	150 Max	240 Max	50 Max	120 Max	150 Max	240 Max	
	RIPPLE, NOISE [mVp-p]	100 Max	170 Max	200 Max	290 Max	100 Max	170 Max	200 Max	290 Max	
	TEMPERATURE DRIFT -10~+50°C [mV]	75 Max	180 Max	225 Max	360 Max	75 Max	180 Max	225 Max	360 Max	
	RISE TIME [ms]	500 Max (Rated Input Voltage, $I_o=100\%$ )								
	HOLDING TIME [ms]	10 typ (Rated Input Voltage, $I_o=100\%$ )								
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically								
	OVER VOLTAGE PROTECTION	Works at 115~140% of rating								
ELECTRICALLY ISOLATED	INPUT-OUTPUT	AC1,500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)								
	INPUT-CASE, FG	AC1,500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)								
	OUTPUT-CASE, FG	AC500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)								
ENVIRONMENT	OPERATING TEMP AND HUMID	-10~+50°C, 20~90% RH(Non Condensing)								
	STORAGE TEMP AND HUMID	-20~+75°C, 20~90% RH(Non Condensing)								
	VIBRATION	10~55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis								
	IMPACT	10G for 20ms once on each X, Y and Z axis								
SAFETY	SAFETY REGULATION	-								
	LINE CONDUCTED RF VOLTAGE	-								

## DS100-S EXTERNAL VIEW



- \* Weight : 700g
- \* Tolerance :  $\pm 1$
- \* Dimensions in mm

**DS SERIES (SINGLE OUTPUT)**

General Information

Switching Mode Power Supply

DC-DC Converter

Noise Filter

Solid State Relay

AC FAN Motor

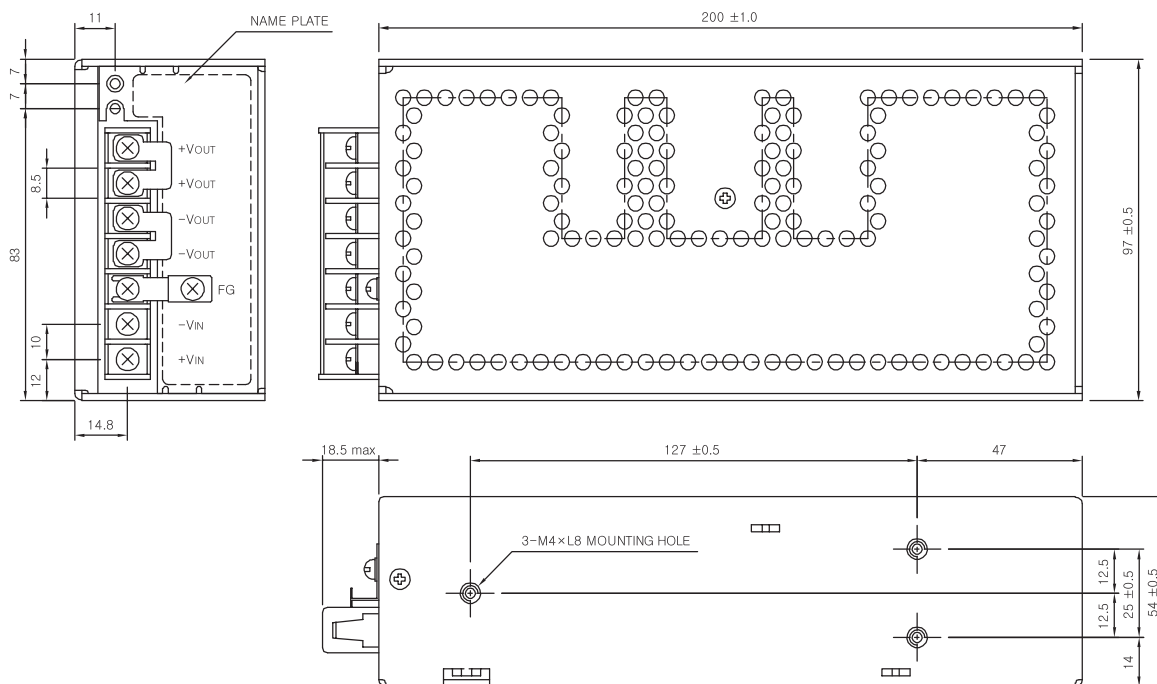
Power Module

Discrete Semiconductors

**DS100-S SPECIFICATIONS**

MODEL		DS100-4805	DS100-4812	DS100-4815	DS100-4824	DS100-11005	DS100-11012	DS100-11015	DS100-11024	
INPUT	VOLTAGE	DC48V (38~63V) / 4A				DC110V (85~160V) / 1.4A				
	VOLTAGE [V]	5	12	15	24	5	12	15	24	
OUTPUT	CURRENT [A]	20	9	7	4.5	20	9	7	4.5	
	REGULATION, LINE [mV]	25 Max	60 Max	75 Max	120 Max	25 Max	60 Max	75 Max	120 Max	
	REGULATION, LOAD [mV]	50 Max	120 Max	150 Max	240 Max	50 Max	120 Max	150 Max	240 Max	
	RIPPLE [mVp-p]	50 Max	120 Max	150 Max	240 Max	50 Max	120 Max	150 Max	240 Max	
	RIPPLE, NOISE [mVp-p]	100 Max	170 Max	200 Max	290 Max	100 Max	170 Max	200 Max	290 Max	
	TEMPERATURE DRIFT -10~+50°C [mV]	75 Max	180 Max	225 Max	360 Max	75 Max	180 Max	225 Max	360 Max	
	RISE TIME [ms]	500 Max (Rated Input Voltage, $I_o=100\%$ )								
	HOLDING TIME [ms]	10 typ (Rated Input Voltage, $I_o=100\%$ )								
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works at over 110% of rating and recovers automatically								
	OVER VOLTAGE PROTECTION	Works at 115~140% of rating								
ELECTRICALLY ISOLATED	INPUT-OUTPUT	AC1,500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)								
	INPUT-CASE, FG	AC1,500V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)								
	OUTPUT-CASE, FG	AC500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)								
ENVIRONMENT	OPERATING TEMP AND HUMID	-10~+50°C, 20~90% RH(Non Condensing)								
	STORAGE TEMP AND HUMID	-20~+75°C, 20~90% RH(Non Condensing)								
	VIBRATION	10~55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis								
	IMPACT	10G for 20ms once on each X, Y and Z axis								
SAFETY	SAFETY REGULATION	-								
	LINE CONDUCTED RF VOLTAGE	-								

**DS100-S EXTERNAL VIEW**



- \* Weight : 700g
- \* Tolerance : ±1
- \* Dimensions in mm