



■ Features

- Topology :Compound resonance system
- Super-low noise , low ripple voltage and low leakage current ,
- Low electric magnetic field strength , low conduction noise
 - * about 20dB margin against class B
- Worldwide input , RoHS regulation
- Halogen free(printed circuit board)
- Vinyl chloride free
- Meet Safety Standard
- EMC standard compliance

■ Model configuration



Specification

Type	HFD30-12_		HFD30-15_		
Input	Input Voltage	Rating 100 – 240Vac (range : 85~264Vac)			
	Input Frequency	Rating 50/60Hz (range : 47Hz~63Hz)			
	Input Current (Note 1)	ACIN 100V/200V	0.9A/0.45A (IO=100%)		
	Inrush Current (Note 1)	ACIN 100V/200V	20A/40A (Ta=25 cold start)		
	Efficiency (Note1)	ACIN 100V/200V	76%/78%		76%/78%
Leakage Current	0.04mA typ(100Vac,60Hz) / 0.10mA typ(240Vac,60Hz)				
Output	Output Voltage	+12Vdc	-12Vdc	+15Vdc	-15Vdc
	Output Current	2.2A	0.3A	1.5A	0.5A
	Max Output Power	30.0W		30.0W	
	Line regulation	48mV max	60mV max	60mV max	60mV max
	Load regulation	100mV max	150mV max	120mV max	150mV max
	Ripple Noise (Note 2)	3mV typ	2mV typ	3mV typ	2mV typ
Accessory Function	Current limit (Note 3)	Short-circuited on output terminals protection (shut down output)			
	Over-voltage protection (Note 3)	Rated output voltage x115% and over (shut down output)			
	Remote Sensing	Non			
	Remote Control	Available			
Operate Indication	LED lighting				
Mechanical	Cooling System	Free air convection cooling			
	Size (WxHxD)	84x30x161.5mm (without Terminal stand)			
	Weight	460g			
Input and Output Terminal/Signal Terminal	Screw Terminal				
Environment	Operating Temperature	-10 ~ +60 (with output)			
	Operating Humidity	30%RH ~ 90%RH (non condensing)			
	Storage Temperature	-20 ~ +85			
	Storage Humidity	10%RH ~ 95%RH (non condensing)			
	Vibration	19.6m/s ² 10~55Hz 1min X,Y,Z each an hour			
	Impact	196.1m/s ² 11ms X,Y,Z each one time			
Isolation Voltage	Dielectric Withstand	INPUT - FG : 2kVac(20mA) 1min			
		INPUT - OUTPUT : 3kVac(20mA) 1min			
		OUTPUT -FG : 500Vac(20mA) 1min			
	Insulation Resistance	INPUT-FG , INPUT-OUTPUT , OUTPUT-FG			
	Over 100MΩ at 500Vdc				
Safety Standard	Electrostatic discharge	EN61000-4-2			
	Electromagnetic Fields Immunity	EN61000-4-3			
	Electrical Fast Transient	EN61000-4-4			
	Surge immunity	EN61000-4-5			
	Conducted emission LISN	EN61000-4-6			
	Power Supply Harmonic Immunity Test	EN61000-4-8			
	Voltage Dip,Short Interruption, Voltage Fluctuation Immunity	EN61000-4-11			
	Conduction Noise	EN55022-B , FCC-B , VCCI-B			
	Safety Standard	UL60950-1 ,CSA-C22.2 NO.60950-1, EN60950-1 Electrical Appliance and Material Safety Law			
UL File No	E237238				
CE marking	Low Voltage Directive				

(Note 1) Conditions : Ta = 25

It is a TYP value at the time of the maximum output power. °C

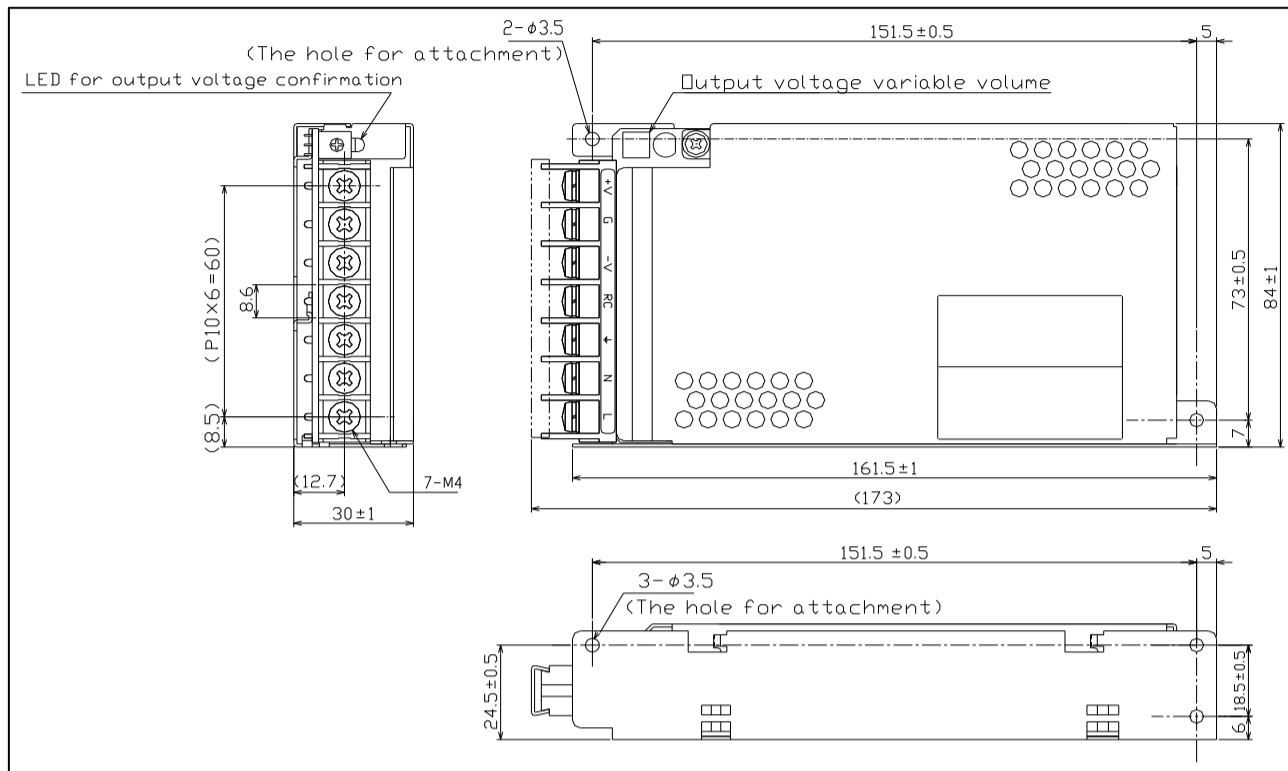
(Note2) JEITA measuring method

It is based on a 100MHz oscilloscope. (Conditions : Ta = 25 Vin = 100Vac It is a TYP value at the time of a rated output)

(Note 3) The input is intercepted, and it returns the input the re-turning on after a few minutes.

Note : Derating is required by operating temperature. Follow the overload and specification in manual to avoid the damage of Power Supply.

■ Mechanical Drawings

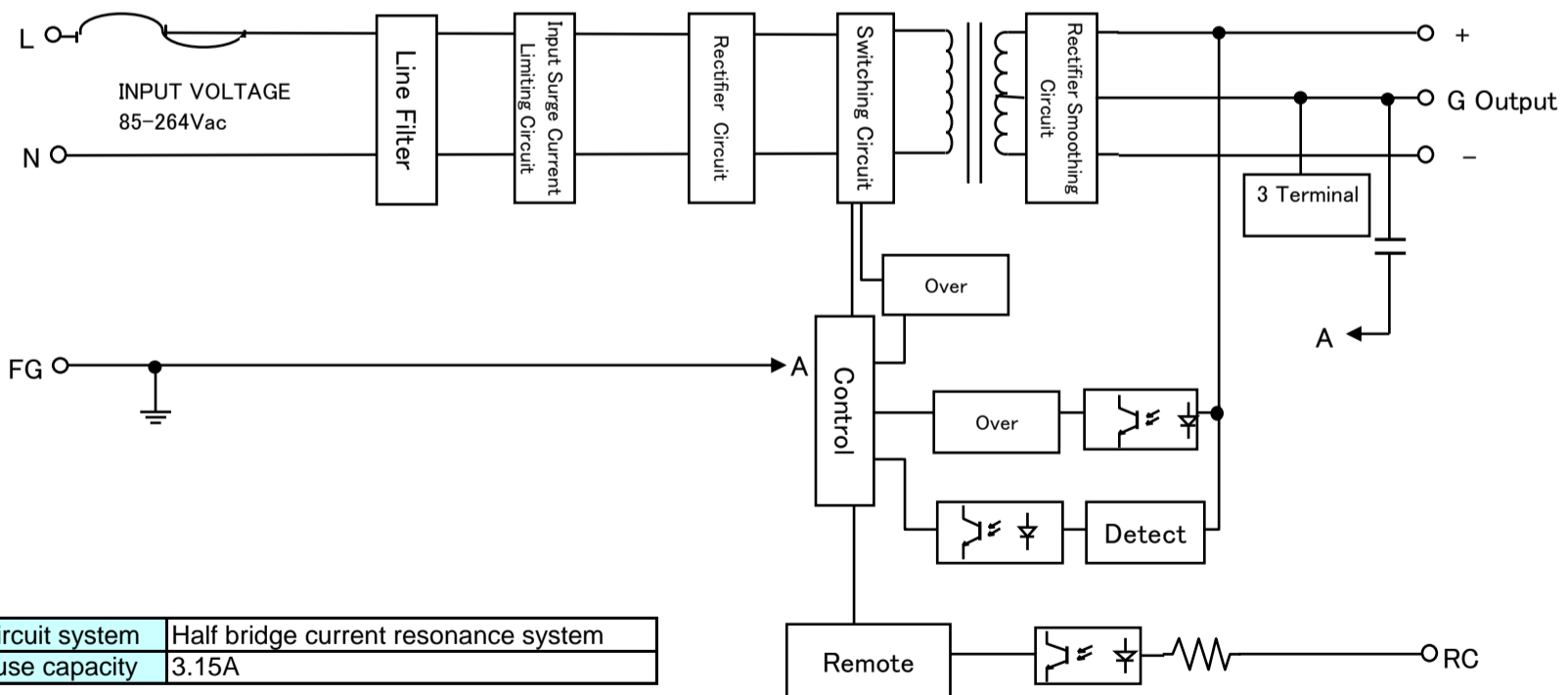


●TB101

Number	
①	Input (L)
②	Input (N)
③	FG
④	RC
⑤	Output (-)
⑥	G
⑦	Output (+)

- Note that a large current peak flows when the pulling out opening of a capacitive load is done with AC input ON.
- Connect the input and the output with the AC input is turned off.
The power supply is damaged and the output doesn't stand up when using it by the mistake method.

●Block diagram



Circuit system	Half bridge current resonance system
Fuse capacity	3.15A

- ## ■ Reference
- The content of this catalog may change without prior notice for improvement this product.

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