

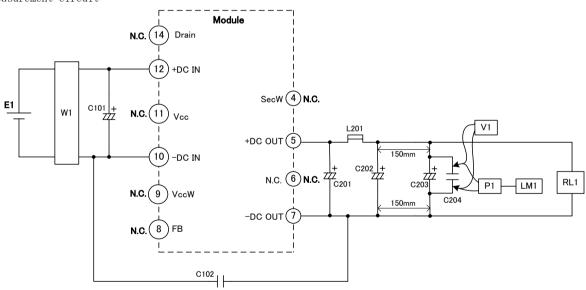
■Input-output condition

Item	Specification
Input voltage range	DC110~450V
Rated input voltage	DC140V, DC340V
Rated output voltage	12V
Rated load current	0. 5A

■Electrical specification Ta=25°C

Item	Specification	Conditions • Note
Efficiency	More than 75%	Rated input voltage
Eliforono	More offer 1070	Rated output current
Output voltage toleran	$\pm 10\%$	
Line regulation	Less than 50mV	Input voltage DC110V~450V
Load regulation	Less than 200mV	Output current 0~500mA
No-load power	Less than 70mW	Rated input voltage
Ripple	Less than 120mVp-p	Rated input voltage
Ripple noise	Less than 150mVp-p	Rated output current

Measurement circuit



E1 : DC power supply C101 : 450BXC22M (RUBYCON)
W1 : Wattmeter WT210 (YOKOGAWA) C102 : CD75-E2GA681M (TDK)
RL1 : Electronic load C201 : 25ZLG220M (RUBYCON)
V1 : Voltmeter Class 0.5 C202 : 25ZLG220M (RUBYCON)
P1 : Differential probe DP-100(KG) C203 : 25ZLG47M (RUBYCON)
LM1 : Ripple noize meter RM-103(KG) C204 : 50F2D104K (RUBYCON)
L201 : PJ5H-2R2M (KORIN)



■Protection

Item	Specification	Conditions • Note
Overcurrent protection	More than 0.53A	Auto recovery
Overvoltage protection	13.5~18V	Latch off
Overheat protection		Latch off

■Insulation

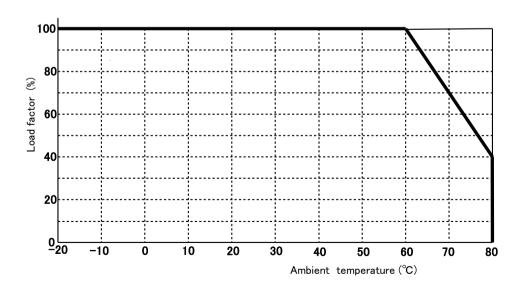
Item	Specification	Conditions • Note
Insulation voltage (Between Pri-Sec)	3.0kV (or 3.6kV)	AC 1min (or AC 2sec) Cutoff 2mA
Insulation resistance (Between Pri-Sec)	More than 100MΩ	DC500V

■Environmental conditions

Item	Specification	Conditions • Note
Operation temperature	-20°C∼80°C	Stand for ambient temperature derating
Operating humidity	20∼95%RH	
	(No condensation)	
Storage temperature	-25°C∼85°C	
Storage humidit	5∼95%RH	
	(No condensation)	

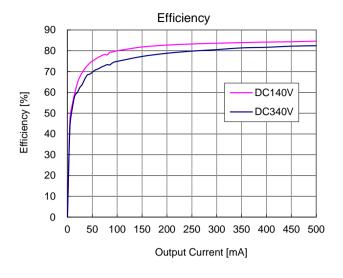
\blacksquare Ambient temperature derating curve

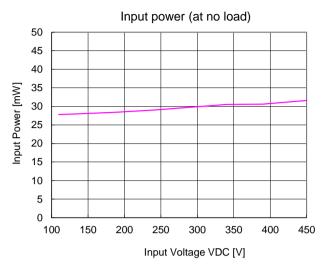
Reduce the load current according to the following temperature derating table.

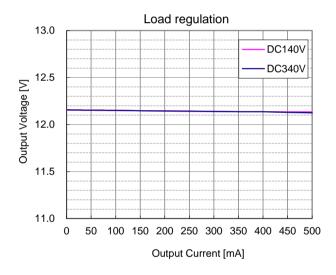


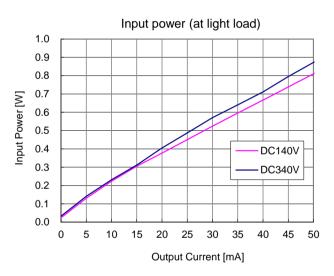


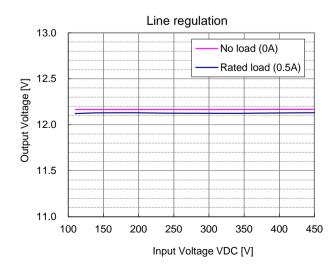
■Typical characteristics Ta=25°C





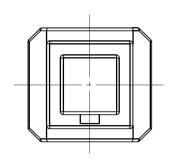


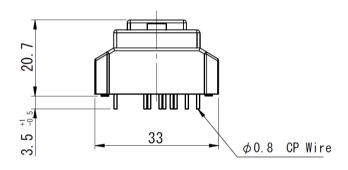


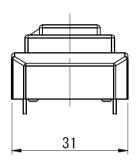


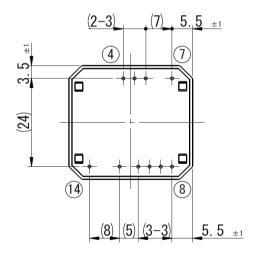


■Outline dimensional drawing







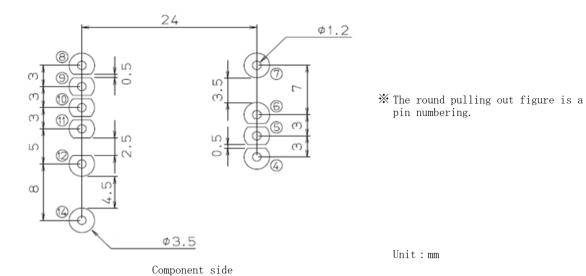


Note :1. The dimensional tolerance without directions is \pm 0.5mm.

Unit:mm



■Recommended hole diameter and land size



■Terminal function and connection

Secondaries

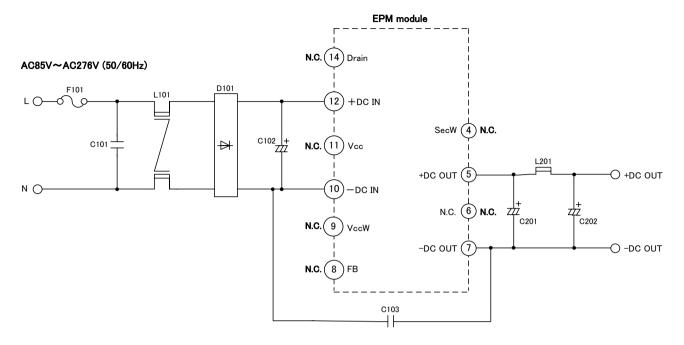
Pin No.	Name	Explanation of terminals		
1		No terminal		
2		No terminal		
3		No terminal		
4	SecW	Non-contact terminal **Don't connect with other circuits.		
5	+DC OUT	Output terminal (+)		
6	N. C.	Non-contact terminal **Don't connect with other circuits.		
7	-DC OUT	Output terminal (-)		

Primaries

Pin No.	Name	Explanation of terminals		
8	FB	Non-contact terminal **Don't connect with other circuits.		
9	VccW	Non-contact terminal **Don't connect with other circuits.		
10	-DC IN	DC voltage input terminal (-)		
11	Vcc	Terminal for start-up time adjustment		
12	+DC IN	DC voltage input terminal (+)		
13		No terminal		
14	Drain	Terminal for noise adjustment		



■Application circuit example



Symbol	Description	Part No.	Manufacturer
D101	Diode	D2SB60	SHINDENGEN
L101	Inductor	LF-4Z-E333	KORIN
L201	Inductor	PJ5H-2R2M	KORIN
C101	Capacitor	LE104-MX	OKAYA
C102	Capacitor	450BXC22M	RUBYCON
C103	Capacitor	CD75-E2GA681M	TDK
C201	Capacitor	25ZLG220M	RUBYCON
C202	Capacitor	25ZLG220M	RUBYCON
F101	Fuse	FCT 250V 1.6A	NIPPON-SEISEN