World wide input, and built in PFC

AC input, and isolated High-power LED Driver for Illumination

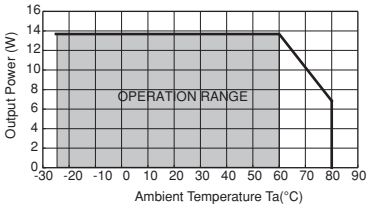
BP5870

●Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Limits	Unit	Conditions
Input voltage	Vi	264	V	AC
Output voltage(limits)	Po	45.6	V	Io=150mA
Output current	Iac	1	Arms	AC
Maximum input current	BV	1.8	kV	1sec(between primary and secondary) When each of input and output is shorted, a voltage is applied between them.
Withstand voltage	Tcmax	105	°C	Ambient temperature + the module self-heating≤Tcmax
Operating temperature range	Topr	−20 to +60	°C	Refer to derating curve
Storage temperature range	Tstg	−25 to +85	°C	

●Derating Curve



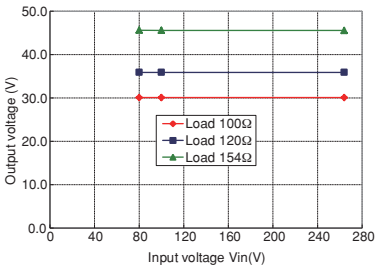
●Electrical Characteristics

(Unless otherwise noted, Vi=AC80 to 264V, Vo=45.6V, Ta=25°C)

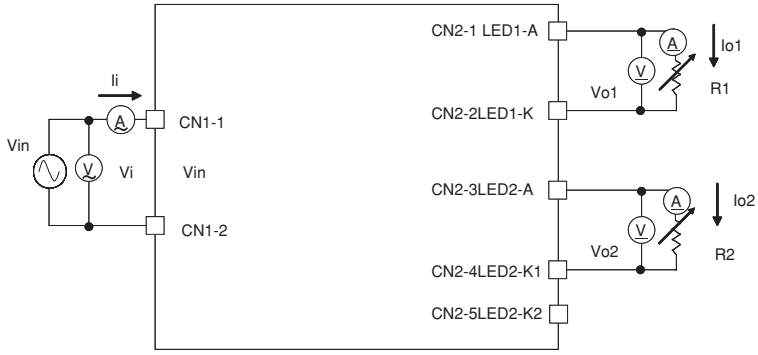
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage range	Vi	80	100	264	VAC	50/60Hz
Input power factor	θ	0.90	0.95	–	–	Vi=AC100V
Output current 1,2	Vo1,2	30	–	45.6	–	Io1=150mA, Io2=150mA
Output voltage range 1,2	Io1,2	142.5	150	157.5	mA	
Output opening voltage	Vopen	–	–	55.0	V	Io1=0mA, Io2=0mA

∗ Maximum output current varies depending on ambient temperature. Refer to the derating curve.

●Line Regulation

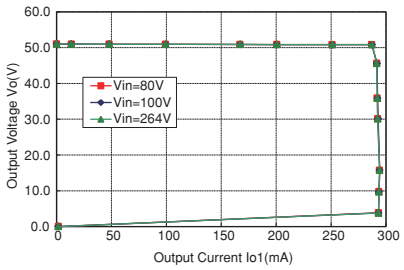


●Test circuit

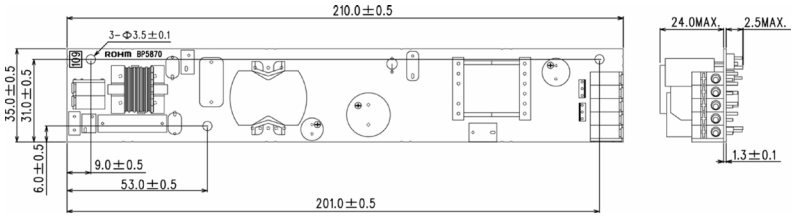


R1,R2=200Ω or 300Ω

●Load Regulation



●Dimensions (Unit : mm)



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