LED Waterproof Power Supply(C&V)

- Protections:short circuit/over load/over voltage/over temperature
- Small size, easy installation
- IP67 design for indoor or outdoor installation
- It can be used in dry ,wet and rainy environment
- Cooling by free air, high reliability
- 100% full load burn-in test
- Suitable for internal lights application for Ⅰ/Ⅱ/Ⅲ.
- Widely used in LED lighting and IT equipment
- Compliance to worldwide safety regulation for led lightings.

IS 15885(Part2/Sec13)
R - 41065080
www.bis.gov.in

60W

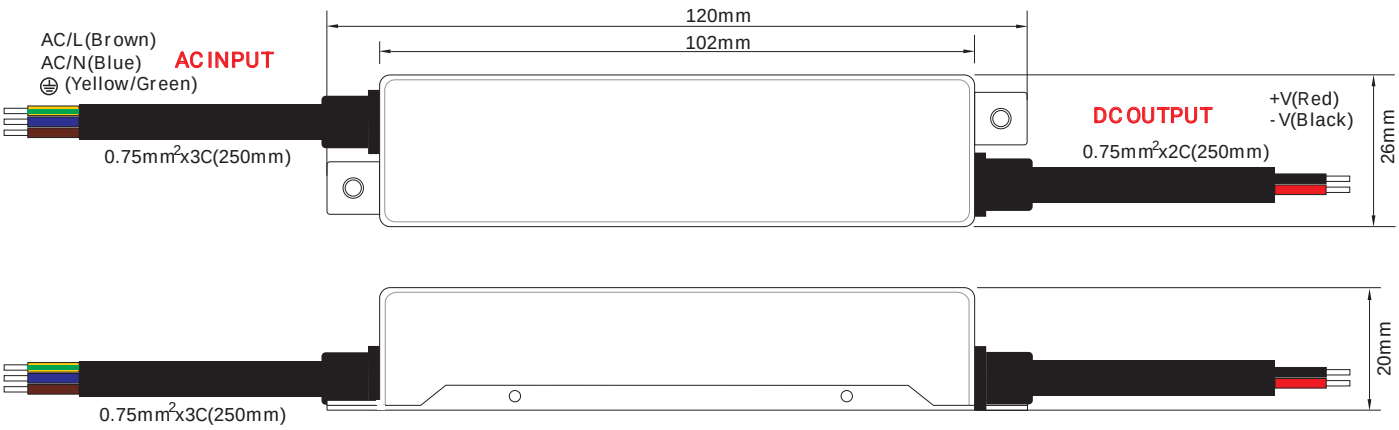
CE SELV IP67

High Reliability | Over-heat Protection | Short Circuit Protection | Over Load Protection | Over voltage protection

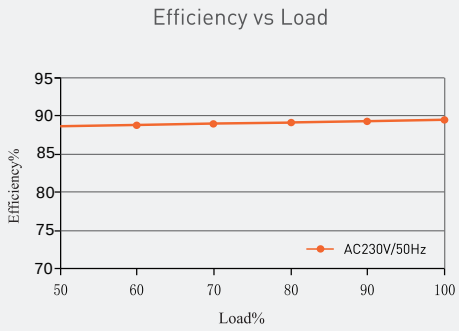
Specification

Model		ND-BWP-60W-12V	ND-BWP-60W-24V
OUTPUT	Output voltage	12VDC	24VDC
	Output voltage range	12VDC± 0.5VDC	24VDC± 0.5VDC
	Output current	Max 5A	Max 2.5A
	Output power	Max 60W	
	Output power range	0~60W	
	Ripple & Noise	≤ 120mV	≤ 240mV
	Linear Regulation	± 1%	
	Load Regulation	± 1%	
	Start-up Time (Typ)	500ms/230VAC 500ms/115VAC	
	Hold Up Time(Typ)	16ms/230VAC 16ms/115VAC	
INPUT	Input voltage	200-240Vac or 100-130Vac	
	Frequency	50/60Hz	
	Input current	0.6A/230Vac or 1.2A/115Vac	
	Power factor	PF>0.5	
	No-load power consumption	< 0.5W	
	Efficiency (typ.)	89%	90%
	Inrush current(typ.)	Cold start 50A at 230Vac	
	Control surge capability	L,N:1KV L,N-PE:2KV	
	Leakage current	Max. 0.5mA	
ENVIRONMENT	Working temperature	ta: -30°C~ 50°C tc: 80°C	
	Working humidity	20 ~ 99%RH, condensing(Waterproof)	
	Storage temp., humidity	-40°C ~ 80°C, 10~95%RH	
PROTECTION	Overtemperature	Protection type: Gradually reduce the output voltage as the temperature rises, directly turn off the output voltage, and automatically recover after the temperature drops	
	Over load protection	Load current ≥ 110%-150%, gradually reduce the output voltage, until closed, can be automatically restored	
	Short circuit protection	Protection type: It can be automatically restored after the fault is eliminated.	
SAFETY & EMC	Withstand voltage	I/P-O/P:3750Vac	
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
	Safety standards	IEC/EN61347;IEC/EN60950;IP67	
	EMC Test Standards	EN55015: 2013;EN61547: 2009; EN61000-3-2:2014; EN61000-3-3:2013	
Reliability and Quality Control	Impact aging	100% of the product is fully loaded and impacted for 4 hours under an environment of at least 40°C±5°C	
	Component derating	Under the steady-state conditions of rated input and output, the stress of components will not exceed its maximum nominal value	
NOTE	1. All parameters not specifically mentioned are measured at 230VAC input, rated load and 25°C ambient temperature. 2. Ripple and noise test method: connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure under 20MHZ bandwidth. 3. Ensure that the power supply is used under the rated parameters and environment.		

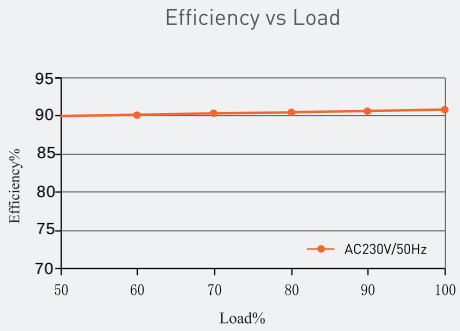
Dimensions
Unit:mm



Relationship diagrams



ND-BWP-60W-12V

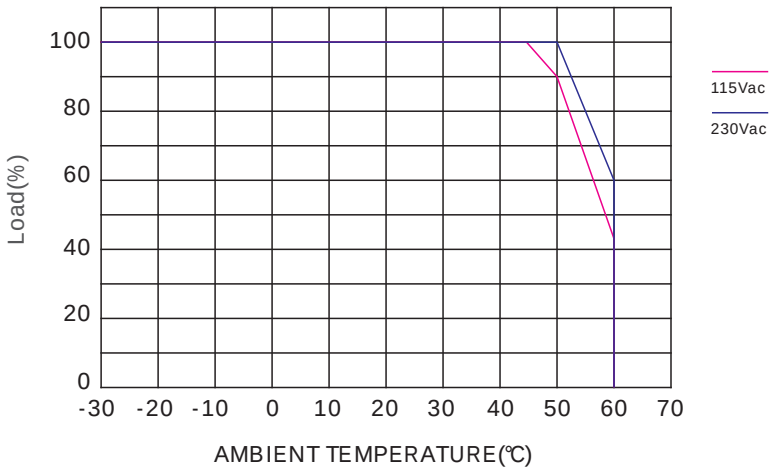


ND-BWP-60W-24V

Packaging Information

DIMENSION	120x26x20mm(LxWxH)
PACKING	171x45x27mm(LxWxH)
CARTON QUANTITY	60PCS
CARTON SIZE	354x282x147mm(LxWxH)
WEIGHT	120g± 10g/PCS

Temperature load curve



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RoHS

CE SELV IP67

High Reliability | Over-heat Protection | Short Circuit Protection | Over Load Protection | Over voltage protection

Specification

Model		ND-BWP-100W-12V	ND-BWP-100W-24V
OUTPUT	Output voltage	12VDC	24VDC
	Output voltage range	12VDC± 0.5VDC	24VDC± 0.5VDC
	Output current	Max 8.5A	Max 4.2A
	Output power	Max 100W	
	Output power range	0~100W	
	Ripple & Noise	≤ 120mV	≤ 240mV
	Linear Regulation	± 1%	
	Load Regulation	± 1%	
	Start-up Time (Typ)	500ms/230VAC 500ms/115VAC	
	Hold Up Time(Typ)	16ms/230VAC 16ms/115VAC	
INPUT	Input voltage	200-240Vac or 100-130Vac	
	Frequency	50/60Hz	
	Input current	0.84A/230Vac or 1.8A/115Vac	
	Power factor	PF>0.5	
	No-load power consumption	< 0.5W	
	Efficiency (typ.)	93%	94%
	Inrush current(typ.)	Cold start 60A at 230Vac	
	Control surge capability	L,N:1KV L,N-PE:2KV	
	Leakage current	Max. 0.5mA	
ENVIRONMENT	Working temperature	ta: -30°C~ 50°C tc: 80°C	
	Working humidity	20 ~ 99%RH, condensing(Waterproof)	
	Storage temp., humidity	-40°C ~ 80°C, 10~95%RH	
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	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH	
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	Component derating	Under the steady-state conditions of rated input and output, the stress of components will not exceed its maximum nominal value	
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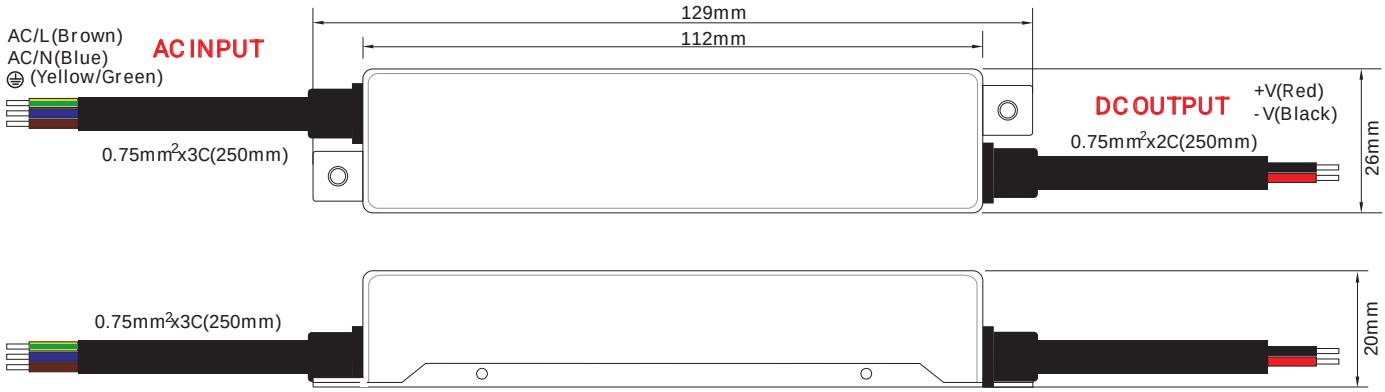
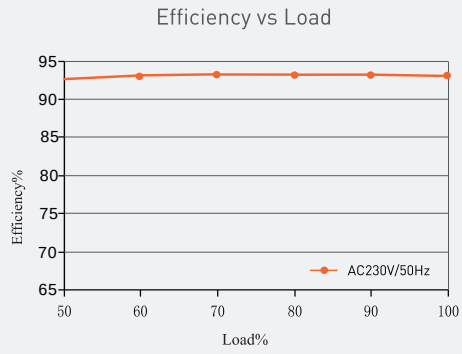
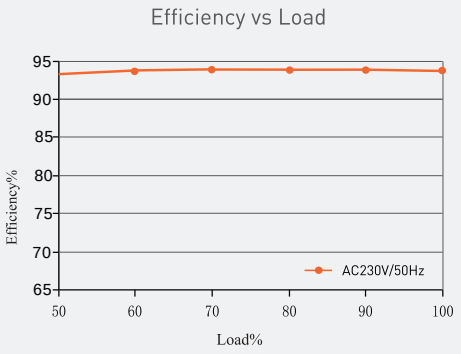
Dimensions
Unit:mm



Relationship diagrams



ND-BWP-100W-12V



ND-BWP-100W-24V

Packaging Information

DIMENSION	129x26x20mm(LxWxH)
PACKING	181x45x27mm(LxWxH)
CARTON QUANTITY	60PCS
CARTON SIZE	374x282x147mm(LxWxH)
WEIGHT	150g± 10g/PCS

Temperature load curve