Product Features

- ✧ Package type : DIN rail type;
- ✧ Temperature range : -40℃ to + 85 ℃;
- ✧ Conversion efficiency : 86.95% (MAX) ;
- ✧ Isolation withstand voltage : 3000V AC ;
- ✧ Input range: 85-264V AC;
- ✧ Output protection: Overcurrent and short-circuit protection ;
- ✧ Application areas: Industry, Instrumentation, Rail Transportation, Smart Streetlights, Smart Switches, Smart Homes.



Product Selection Table

Product Model	Input voltage (V AC)	Output			efficiency% Max
	nominal value (Range value)	Power (W)	Voltage (VDC)	Current (mA) Max	
BAD11-20W264P05N2	220 (85-264)	20	5	4000	82.17
BAD11-24W264P12N2	220 (85-264)	24	12	2000	86.95
BAD11-24W264P24N2	220 (85-264)	24	24	1000	86.14

Input parameters

Project	Working conditions	Minimum value	Typical value	Maximum value	Unit
Input voltage range	Communication input	85	--	264	Vac
	DC input	119	--	370	Vdc
Input frequency	Communication input	47	--	63	Hz
Input current		--	106	--	mA
Boot time		--	800	2000	ms
Surge current		--	10	--	A
Input filter type		C			
External input fuse	It is recommended to select a current rating of 1.5-3 times the actual rated input current, with slow tripping capability.				

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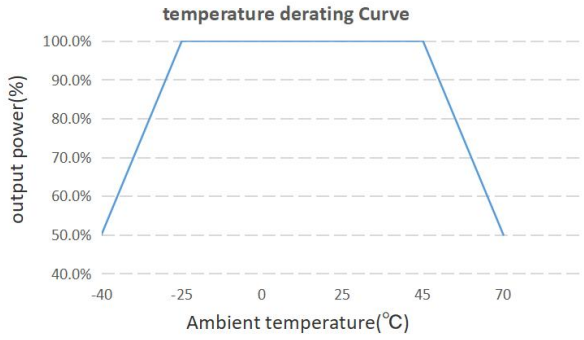
Output parameters

Project	Working conditions	Minimum value	Typical value	Maximum value	Unit
Output voltage accuracy	0%-100% load	--	± 3	± 5	%
Voltage regulation	Fully loaded	--	± 1.5	--	
Load regulation rate	5% - 100% load (balanced load)	--	± 3	--	
Ripple noise	20MHz bandwidth, 100% load	--	--	120	mVp-p
Temperature drift coefficient	BAD11-XW264PXN2	--	± 0.15	--	%/℃
Overvoltage protection		Not.			
Overcurrent protection		110~ 15 0%Io ; Self-recovery			
Short circuit protection		Sustainable, Self-recovery			

General features

Project	Working conditions	Minimum value	Typical value	Maximum value	Unit
Insulation withstand voltage	Input-Output	3000	--	--	Vac
Switching frequency	BAD11-XW264PXN2	--	65	72	KHz
Ambient temperature	See product reduction design	-40	25	+40	℃
Storage temperature		-40	25	+85	℃
Storage humidity		--	--	95	%RH
Mechanical Specifications					
size	87.5 × 58.7 × 24 mm;				
weight	54 g				
Cooling methods	Natural air cooling				

Product reduction design

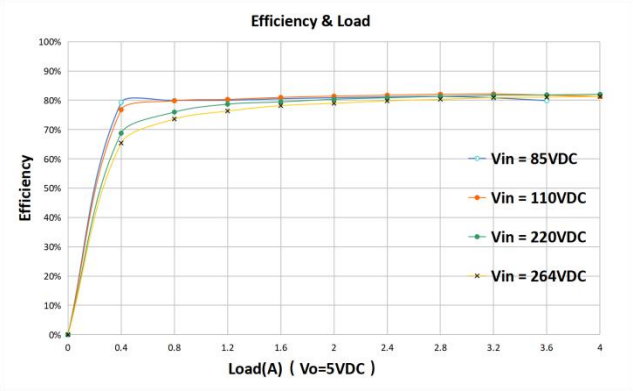


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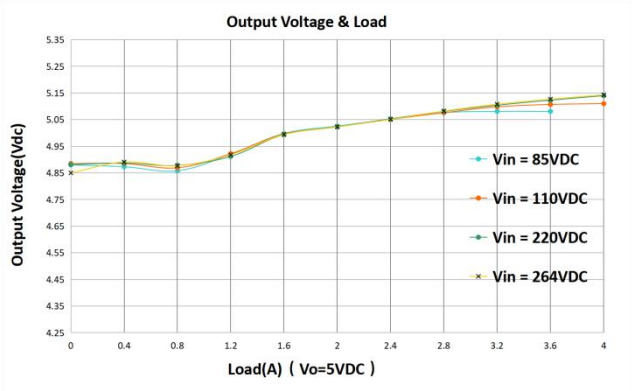
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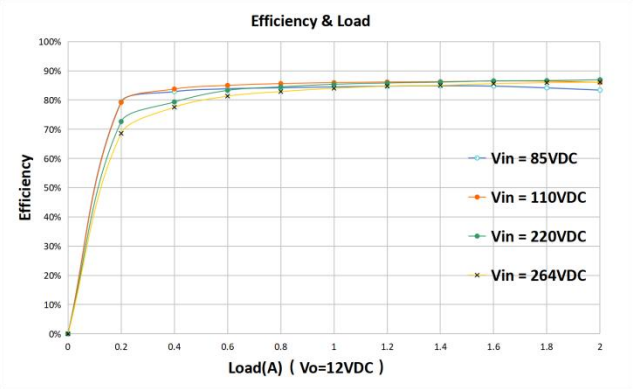
Product Feature Curve Chart



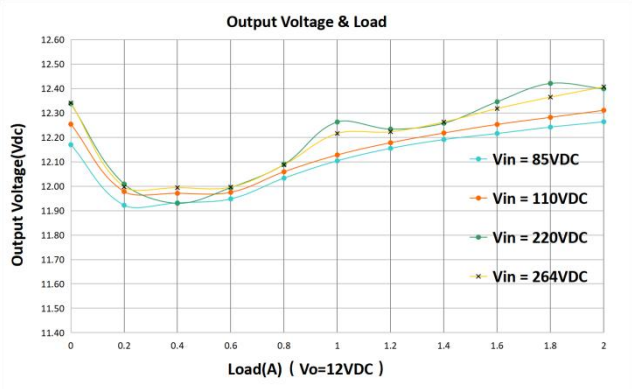
BAD11-20W264P05N2 Efficiency & Load



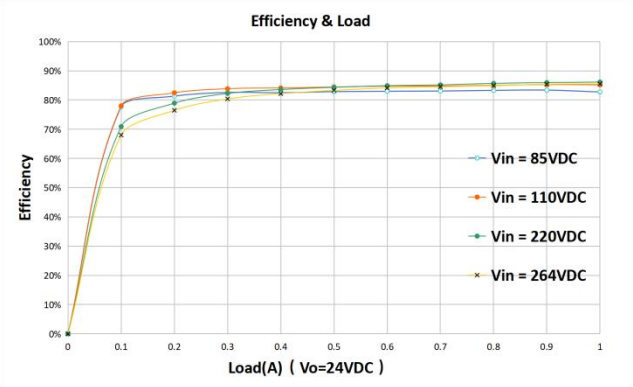
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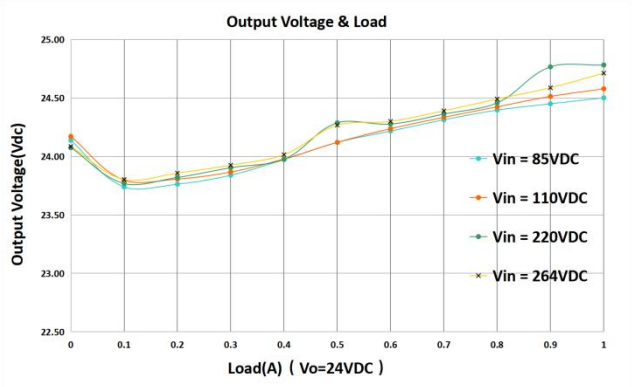
BAD11-24W264P12N2 Efficiency & Load



BAD11-24W264P12N2 Output Voltage & Load



BAD11-24W264P24N2 Efficiency & Load



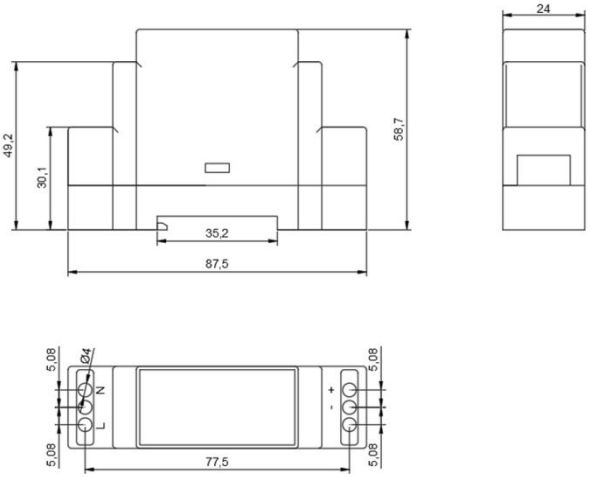
BAD11-24W264P24N2 Output Voltage & Load

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Size and recommended layout diagram



单位： mm

General tolerance: ±1mm

Pin Name	Direction	Description
L	INPUT	AC_L AC Input_Line
N	INPUT	AC_N AC Input_Neutral
+	OUTPUT	+DC DC output positive terminal
-	OUTPUT	- DC DC output negative terminal

File version history

Document Version	Modifications	Release Date	Modified by
V1.0	First release	2026/6/22	LYC

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