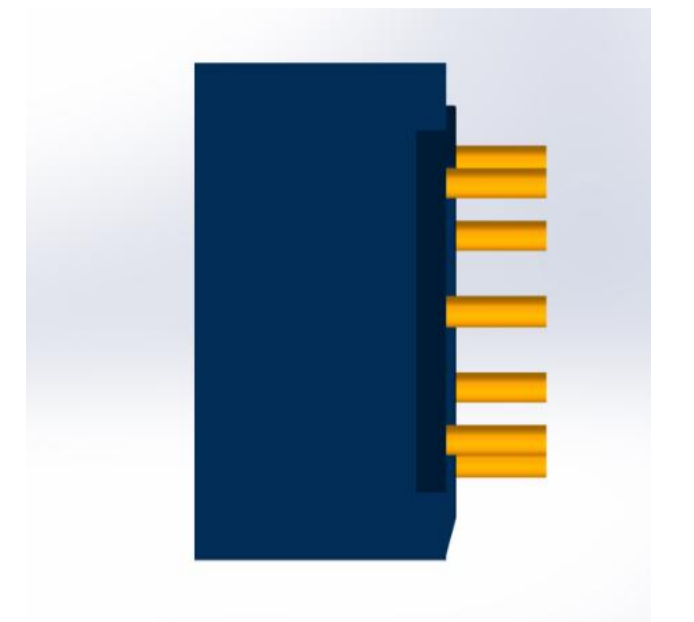
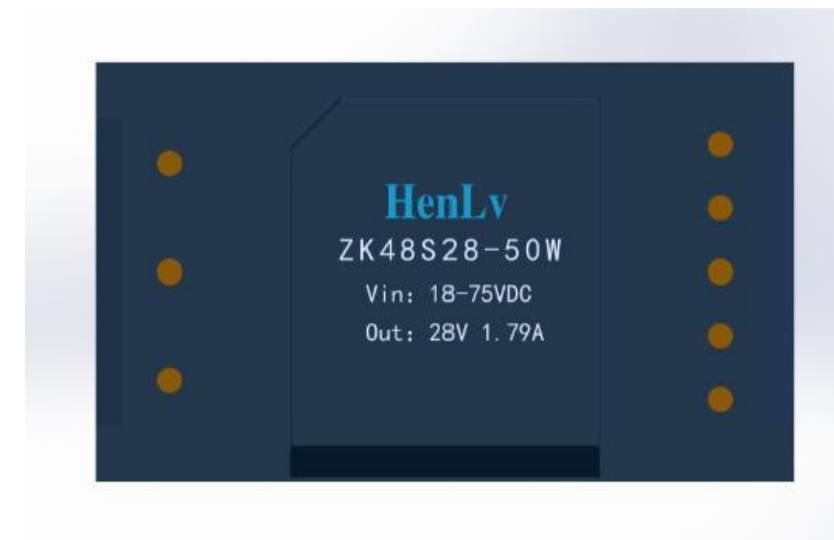
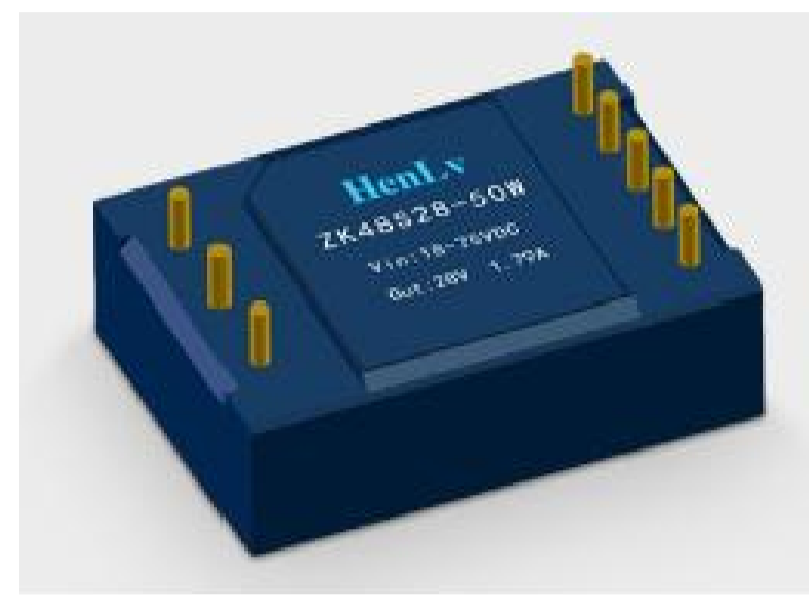


➡ ZK48S28-50W Brick power supply

Wide voltage input
DC/DC Brick power supply



● Product features:

- ◎ Maximum output power 50W
- ◎ High power density: 195w / inch³
- ◎ Efficiency: 90%
- ◎ Isolation withstand voltage: 1500vdc 0.5mA 1minute
- ◎ Heat dissipation mode: natural cooling
- ◎ Wide voltage regulation range: 90% - 110% standard output voltage
- ◎ Pre bias voltage start / input over / under voltage protection, output over current protection / output over voltage protection / over temperature protection
- ◎ Logic control function
- ◎ Metal / plastic packaging, multiple installation options
- ◎ RoHS compliance
- ◎ Heat dissipation mode: natural cooling
- ◎ It has good shielding and anti-interference performance, electromagnetic compatibility, lightning protection, output over-current thermal protection, etc

Product overview:

- ◎ ZK48S28-50W brick power supply is the latest product developed by our company.
- ◎ This product has ultra wide input voltage of 18 ~ 75VDC, volume of 36.50 * 26.30 * 12.70, high efficiency and low power consumption. The product meets the requirements of green environmental protection, metal or plastic shell, with over-current, short circuit protection and other functions.

application area:

- ◎ Railway Communication
- ◎ monitor
- ◎ Monitoring equipment
- ◎ petrochemical industry
- ◎ Industrial control
- ◎ Long distance DC power supply system
- ◎ Switching system and communication equipment, etc

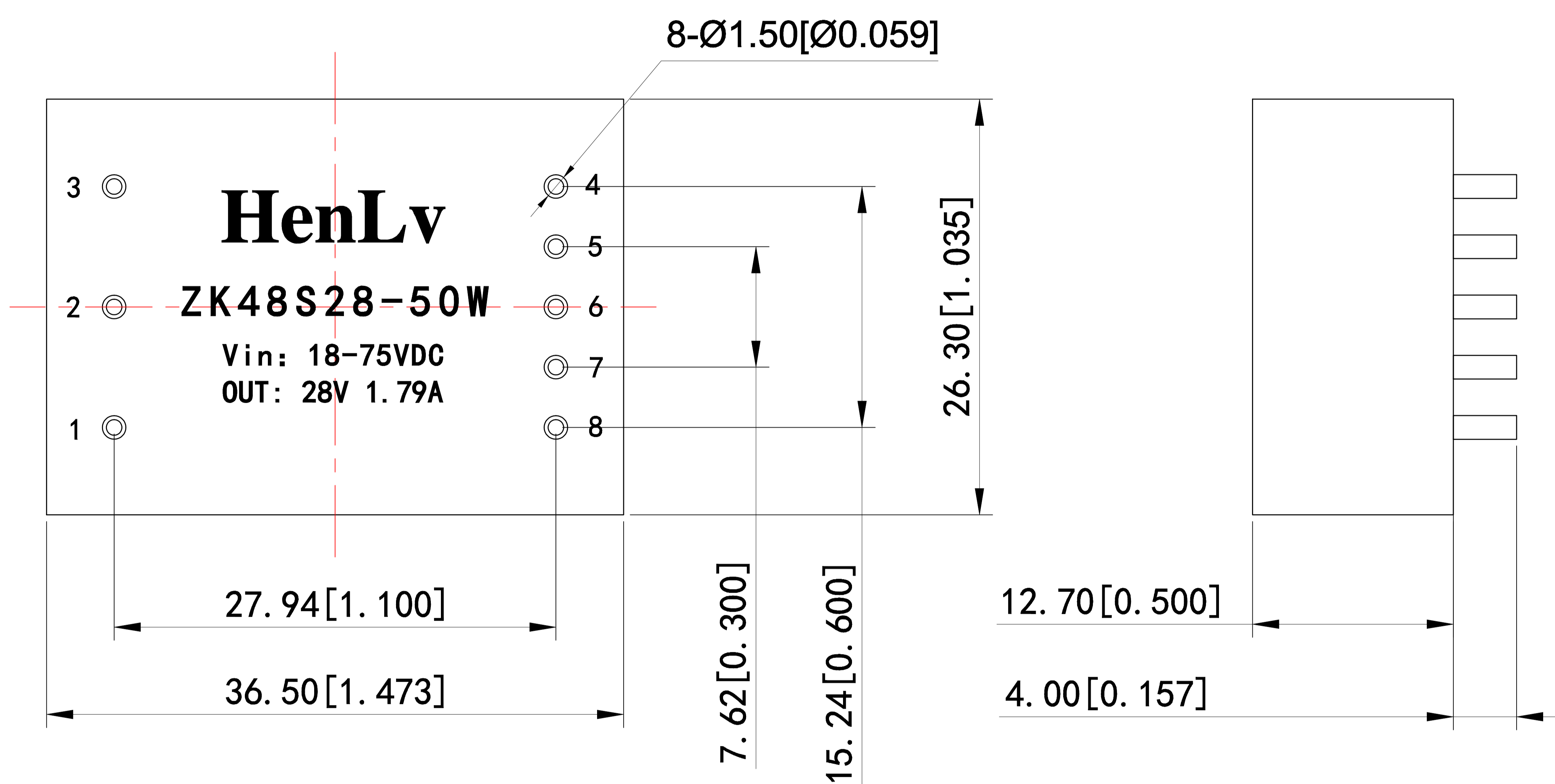
The company for customers to do any input and output of brick power supply, if you have special needs, please call our company, unless otherwise specified, the characteristics of brick power supply

It shall meet the requirements of Table 1 and be applicable to the full temperature range (-40°C ≤ TC ≤ +85°C)

Dimensions and pin mode

ZK48S28-50W

36.50*26.30*12.70 (mm)



Definition of foot position

Pin	Function
1	Vin
2	GNT
3	GND
4	0V
5	-S
6	TRM
7	+S
8	+28VDC

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Series product parameters :

ZK48SXX-50W Series								
Model	input voltage	output voltage	Full load output current	efficiency	Isolation and withstand voltage	weight	encapsulation	authentication
ZK48S3.3-50W	18-75VDC	3.30VDC	15.00A	91%	1500VDC	—	DIP	ROHS
ZK48S05-50W	18-75VDC	5.00VDC	10.00A	91%	1500VDC	—	DIP	ROHS
ZK48S12-50W	18-75VDC	12.00VDC	4.20A	92%	1500VDC	—	DIP	ROHS
ZK48S15-50W	18-75VDC	15.00VDC	3.30A	90%	1500VDC	—	DIP	ROHS
ZK48S24-50W	18-75VDC	24.00VDC	2.10A	90%	1500VDC	—	DIP	ROHS
ZK48S28-50W	18-75VDC	28.00VDC	1.80A	90%	1500VDC	—	DIP	ROHS

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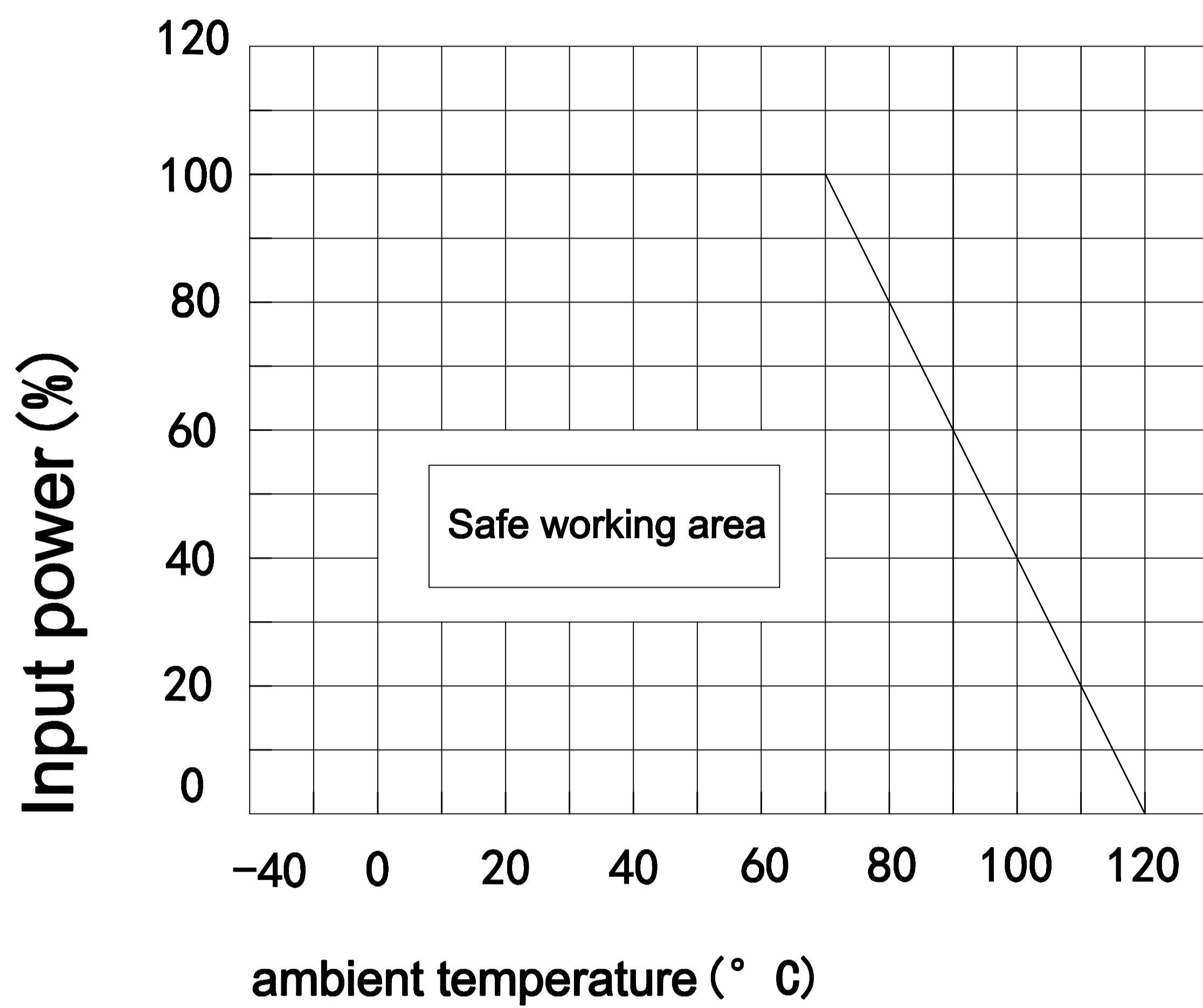
Electrical characteristics

Electrical characteristics					
Electrical characteristics	Symbol	condition Unless otherwise specified $V_i, -40^{\circ}\text{C} \leq \text{TC} \leq +85^{\circ}\text{C}$	Limit value		Company
			minimum		
output voltage	V_o	the full load	$V_o - 2\%V_o$	$V_o + 2\%V_o$	V
Maximum output current	I_{omax}	—	—	$\frac{P_o \text{ (output power)}}{U_o \text{ (output voltage)}}$	A
Output ripple voltage	V_{P-P}	The full load, V_i , BW=20MHz Normal atmospheric temperature	$50 \pm 10\%$	$500 \pm 10\%$	mV
Voltage regulation rate	S_v	V_{imin}, V_I, V_{imax} The full load	—	2.00	%
Load adjustment rate	S_i	$V_i = (10\% \sim 100\%) I_{omax}$	—	1.00	%
efficiency	η	V_i , The full load Normal atmospheric temperature	80.00	—	%
Safety regulation and electromagnetic compatibility	Magnetic field sensitivity test		GB-4943		
	Electrostatic discharge sensitivity test		GB-4943		
	Radiation sensitivity test		GB-4943		
	Conduction sensitivity test		GB-4943		
Temperature drift	0.02%/°C				
frequency	50KZ~400KHZ(MAX)				
humidity	90% (MAX)				
Leakage current	NO				
MTBF	>50,000Hour				

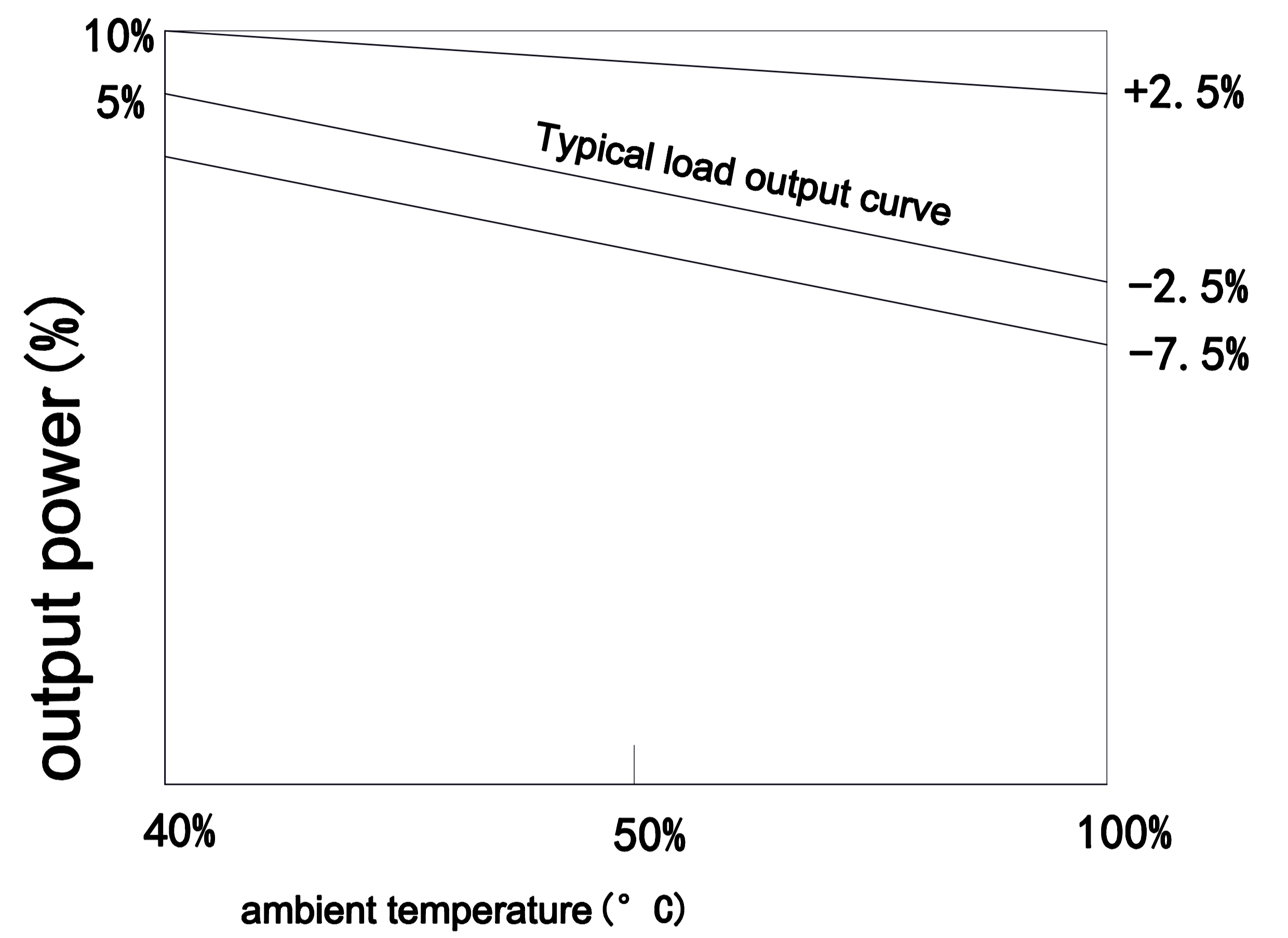
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Temperature curve, Error envelope curve

• Typical efficiency curve



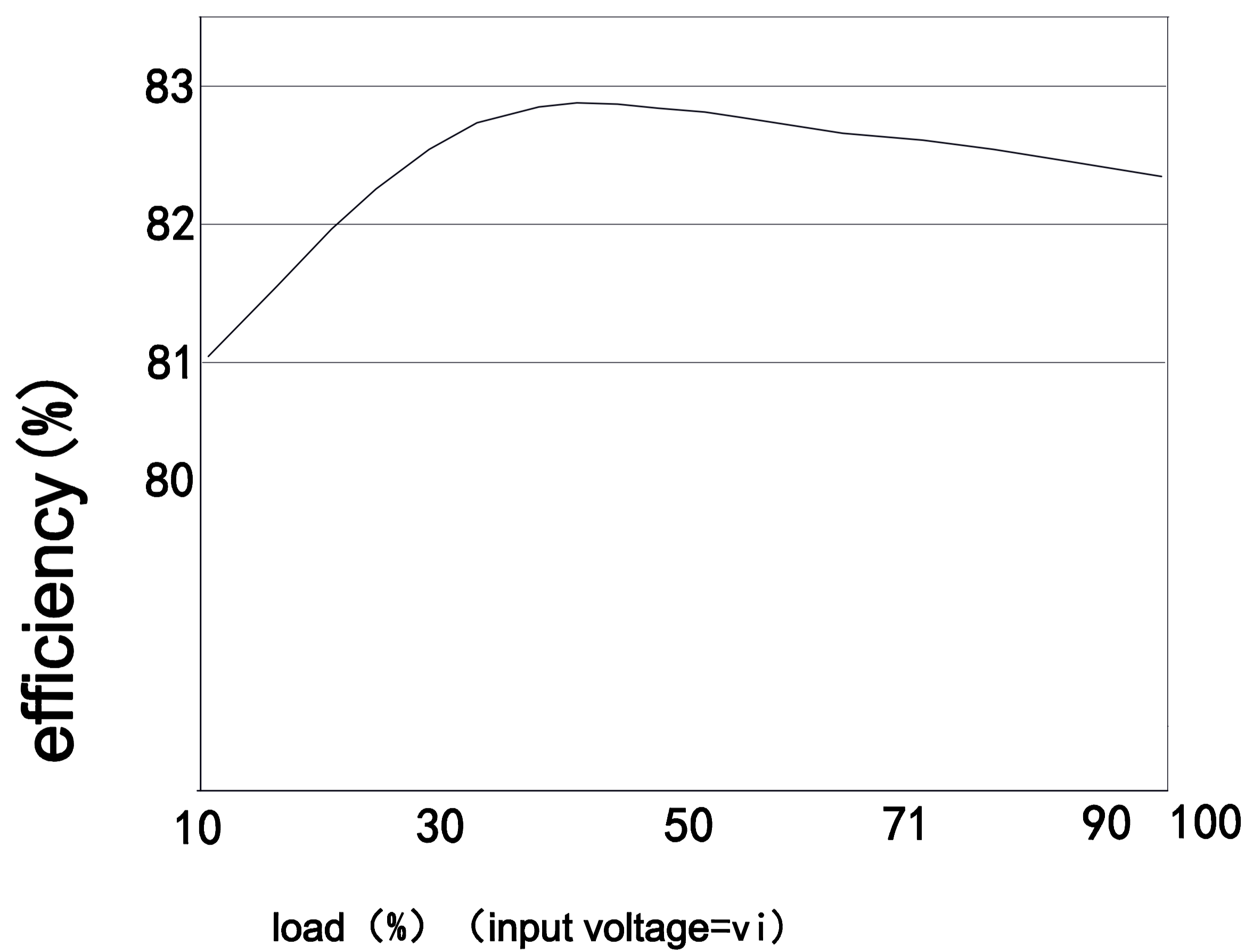
Temperature curve



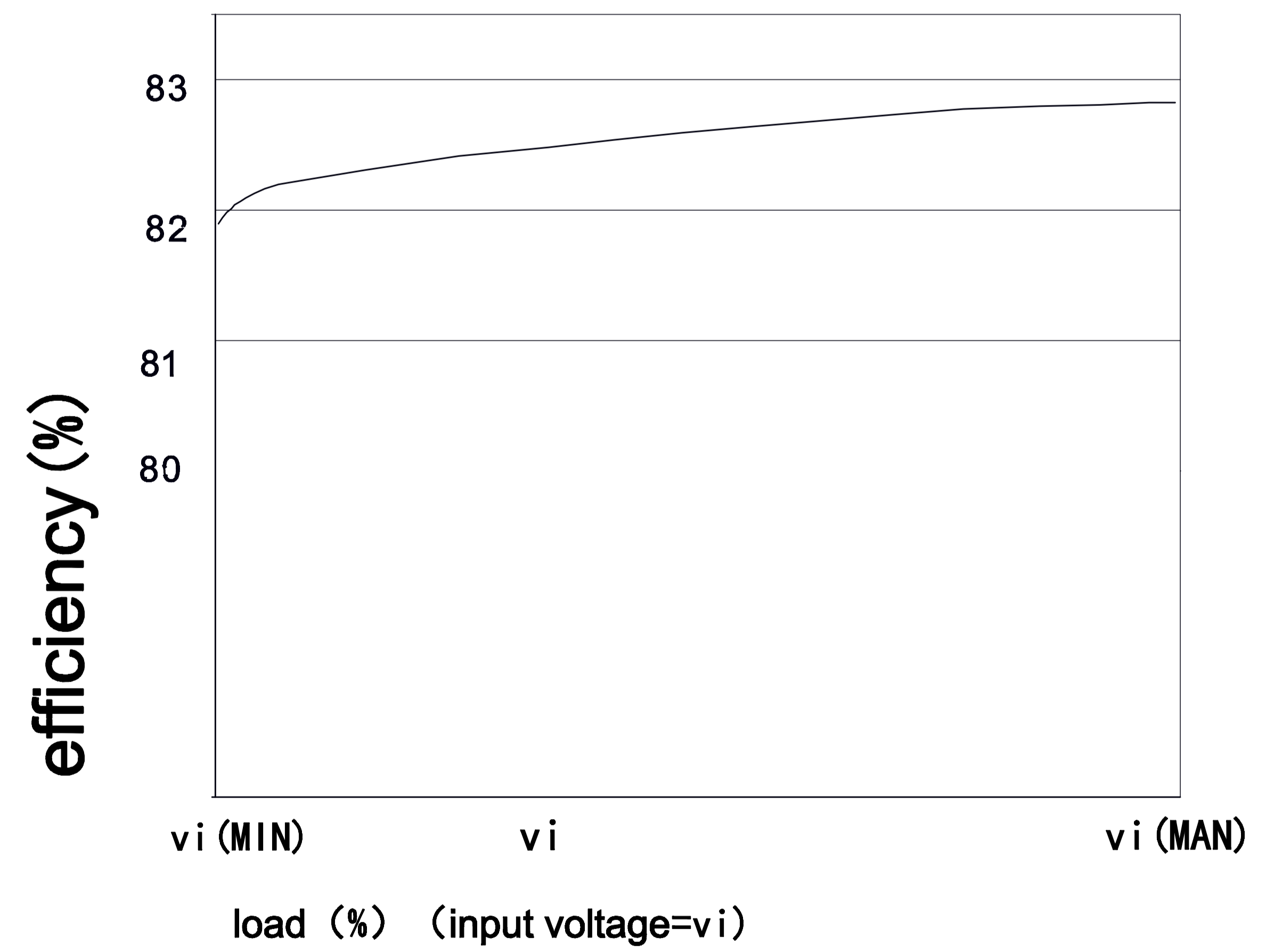
Safe working area

Error envelope curve

• Typical efficiency curve



efficiency/Load curve



efficiency/Input voltage curve

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