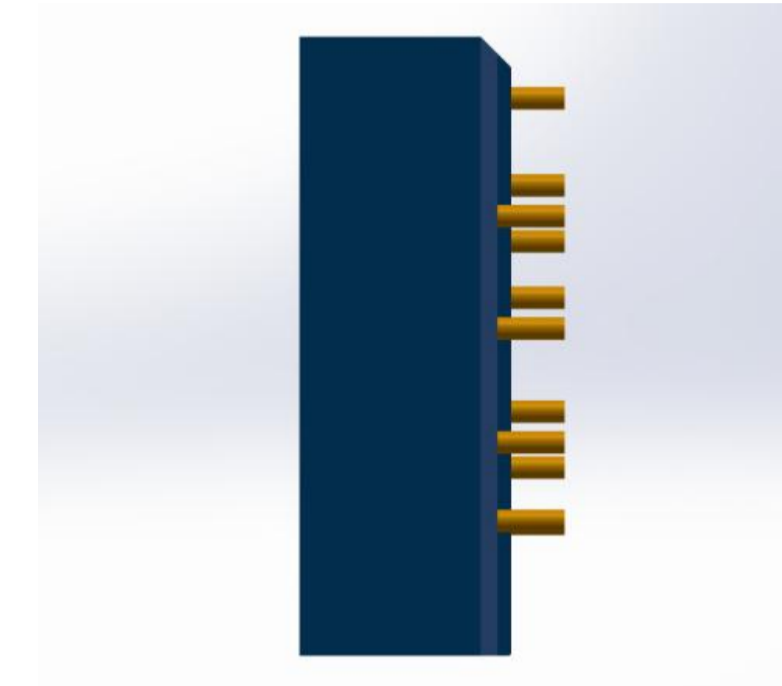
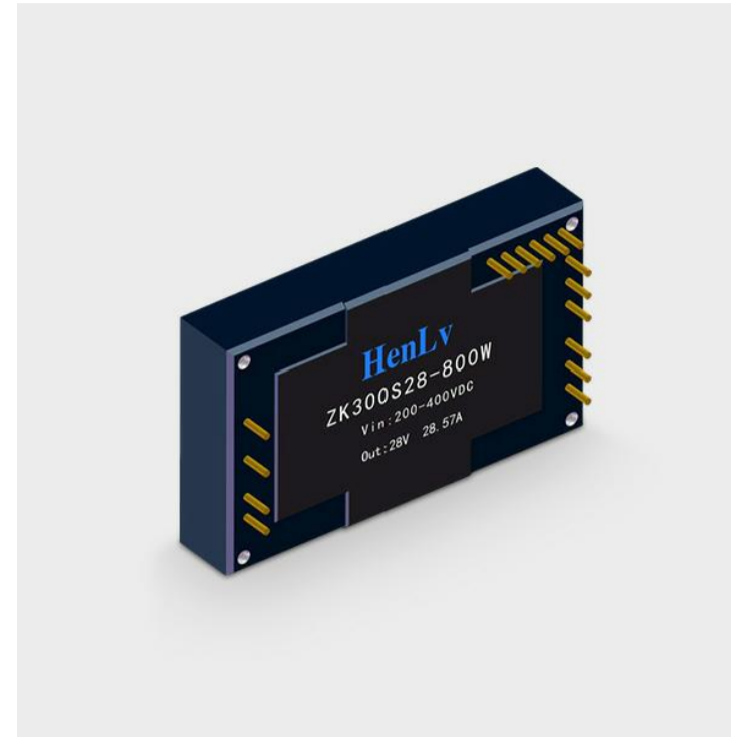


## ➡ ZK300S28-800W Brick power supply

Wide voltage input  
DC/DC Brick power supply



### ● Product features:

- ◎ Maximum output power 800W
- ◎ High power density: 195w / inch<sup>3</sup>
- ◎ Efficiency: 93%
- ◎ 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:

- ◎ ZK300S28-800w brick power supply is the latest product developed by our company.
- ◎ This product has ultra wide input voltage of 200 ~ 400VDC, volume of 116.80 \* 61.00 \* 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

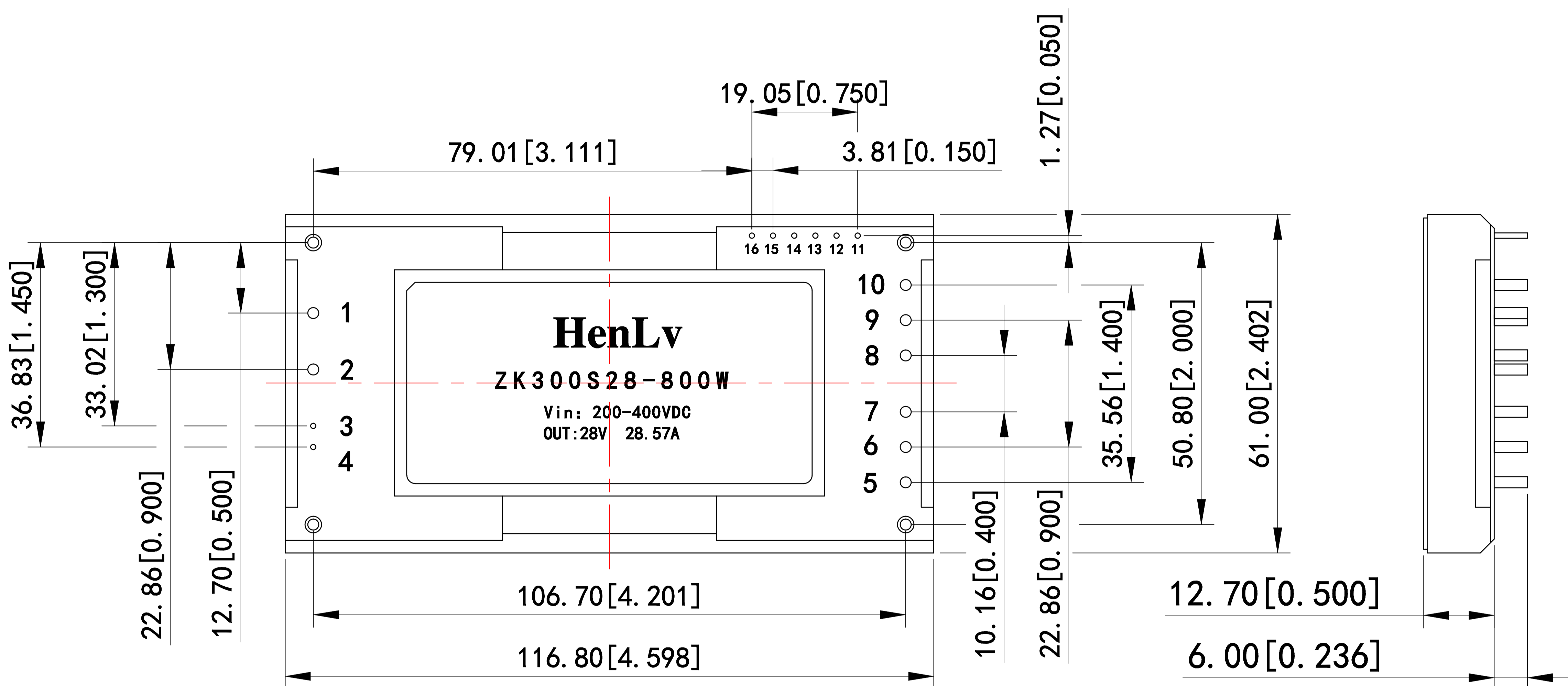
The company for customers to do any input and output of brick power supply, if you have special needs, please call our company, unless otherwise specified, the characteristics of brick power supply

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

### ZK300S28-800W

116.80\*61.00\*12.70 (mm)



### Definition of foot position

Pin	Function	Pin	Function
1	-Vin	9	-0V
2	+VIN	10	-0V
3	-NO/OFF	11	-S
4	+NO/OFF	12	+S
5	+0V	13	TRIM
6	+0V	14	PC/NC
7	+0V	15	IOC
8	-0V	16	AUX

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## Series product parameters :

ZK300SXX-800W~1500W Series								
Model	input voltage	output voltage	Full load output current	efficiency	Isolation and withstand voltage	weight	encapsulation	authentication
ZK300S12-800W	200-400VDC	12.00VDC	67.00A	92%	1500VDC	—	DIP	ROHS
ZK300S28-800W	200-400VDC	28.00VDC	35.00A	93%	1500VDC	—	DIP	ROHS
ZK300S32-800W	200-400VDC	32.00VDC	30.00A	93%	1500VDC	—	DIP	ROHS
ZK300S36-800W	200-400VDC	36.00VDC	22.00A	93%	1500VDC	—	DIP	ROHS
ZK300S48-800W	200-400VDC	48.00VDC	20.00A	94%	1500VDC	—	DIP	ROHS
ZK300S28-1500W	200-400VDC	28.00VDC	53.50A	93%	1500VDC	—	DIP	ROHS
ZK300S48-1500W	200-400VDC	48.00VDC	31.00A	95%	1500VDC	—	DIP	ROHS

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It shall meet the requirements of Table 1 and be applicable to the full temperature range  $(-40^{\circ}\text{C} \leq \text{TC} \leq +85^{\circ}\text{C})$

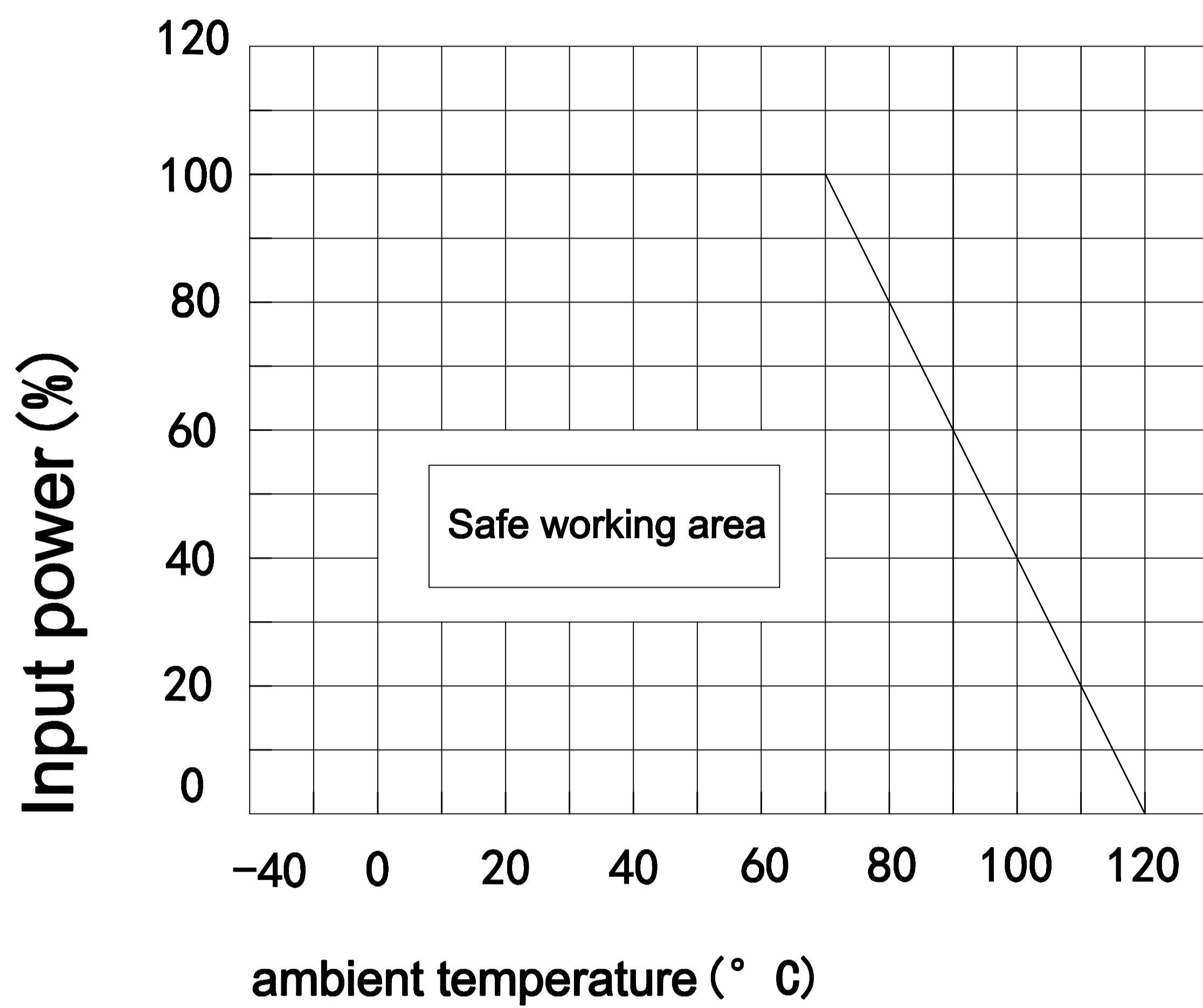
## Electrical characteristics

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	$\eta$	$V_i$ , 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				

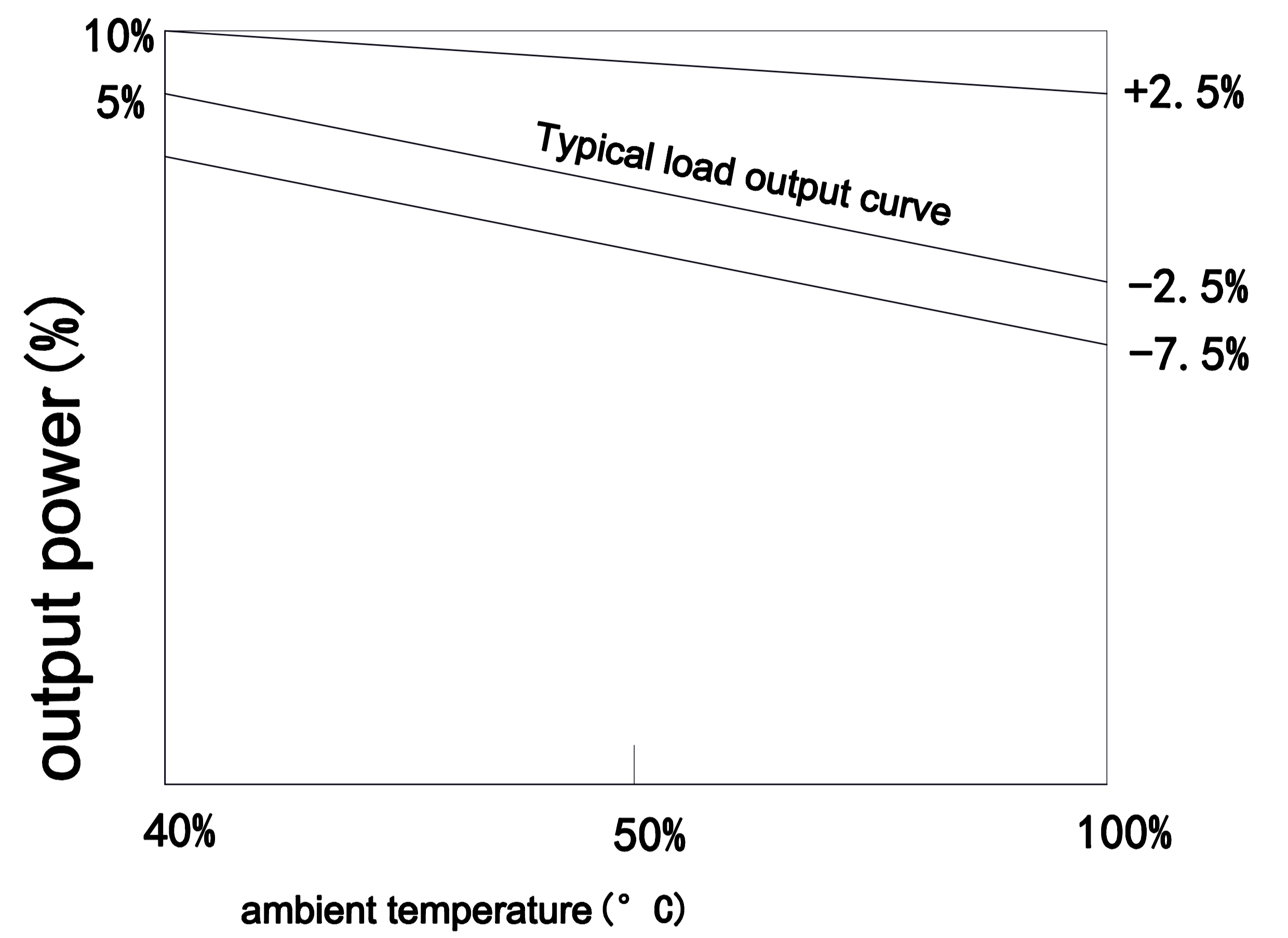
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It shall meet the requirements of Table 1 and be applicable to the full temperature range ( $-40^{\circ}\text{C} \leq \text{TC} \leq +85^{\circ}\text{C}$ )

Temperature curve, Error envelope curve

• Typical efficiency curve



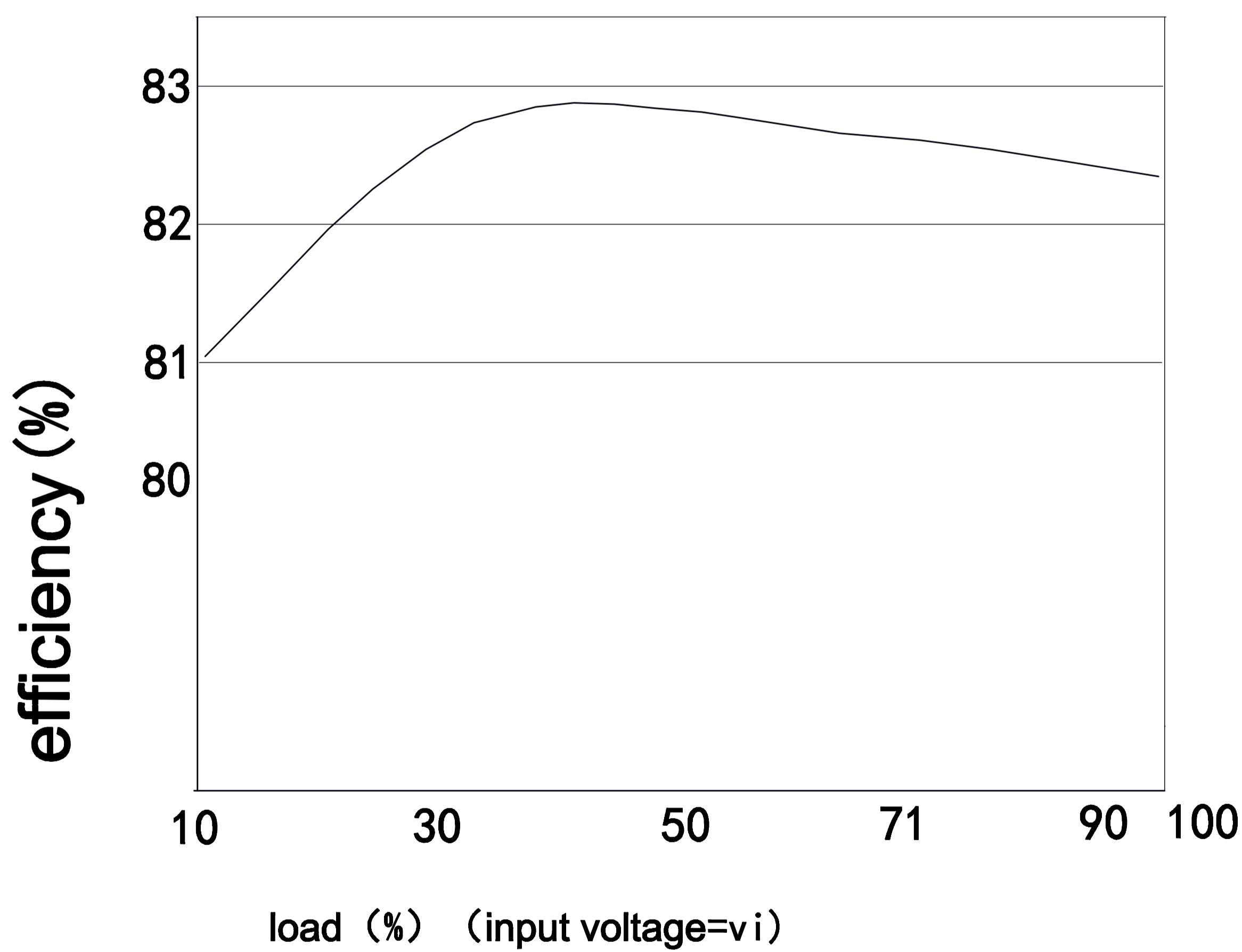
Temperature curve



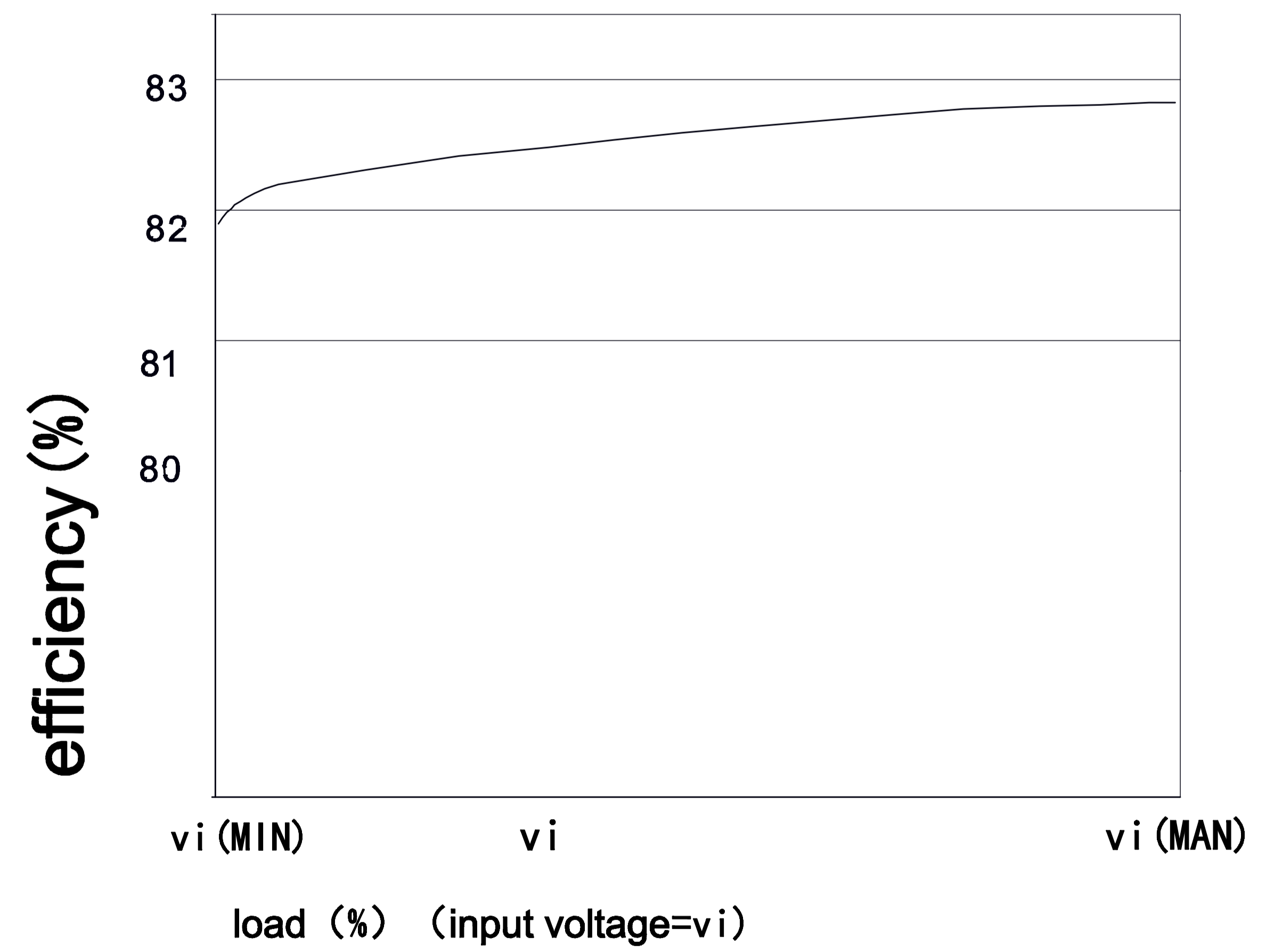
Safe working area

Error envelope curve

• Typical efficiency curve



efficiency/Load curve



efficiency/Input voltage curve

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