

CDKU-S Ultra-thin Switching Power Supply



Product introduction

The CDKU-S series is an enclosed switching power supply with a single output. It has an ultra-thin design of 30 mm and uses a full-range input voltage of 90-264VAC (200W and 350W with toggle switch options). Any set of 5V, 12V, 24V, 36V, 48V single output can be selected (special requirements can be customized). The product adopts full metallized shell and honeycomb heat dissipation design, which has good heat dissipation performance. The product can work normally in the environment of -30 °C ~ 70 °C temperature and 20% ~ 90% RH relative humidity. The efficiency is up to 89%, and the no-load power consumption is as low as 0.2 ~ 1.0 W, which can meet the international energy requirements.

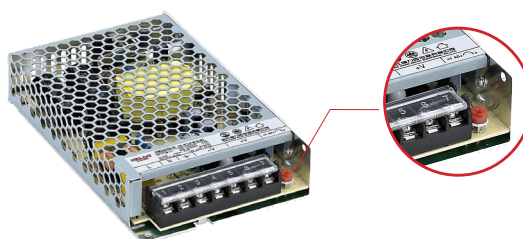
Product characteristics

- 30 mm ultra-thin design
- 90 ~ 264VAC full range AC input
- Low power consumption
- High-frequency PWM control technology
- 100% full load aging test
- Over voltage, over load, short circuit, over temperature (200 W, 350 W) protection
- LED working indicator
- CE, RoHs, EMC
- Working altitude 2000 m

■ Compact size

Advantage selling point: the whole series is designed with a thickness of 30 mm, and the size has an absolute advantage over the same mainstream products in the market.

Customer benefits: similar products with the same power section which can save 20% of the installation space for customers.



■ The specifications are complete

Advantages selling point: Provide 7 different power section specifications of power supply products, output voltage $\pm 10\%$ adjustable

Customer benefits: wide range of product choices, cost-effective, reduce unnecessary losses

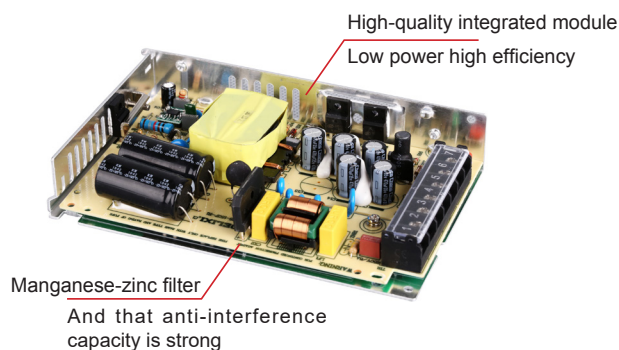


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■ Excellent performance

Advantages selling point: the use of high-quality raw materials, excellent product performance

Customer benefit: No-load power consumption as low as 0.2 ~ 1 W, efficiency $\approx 89\%$



■ Safety protection

Advantageous selling points: standard terminal protection cover

Customer benefits: prevent electric shock caused by touching the block terminal by mistake, and effectively improve use safety

■ Hiccup protection

Advantageous selling points: Overload and short circuit protection of the whole series of products are "hiccup" protection modes.

Customer benefits: to meet the needs of OEM customers for protection methods

■ Easy to install

Advantageous selling points: flexible selection of 2 installation modes including flat panel installation and guide rail installation (optional installation accessories are required), and fool proofing hole installation

Customer benefits: to meet the needs of customers for different installation methods, the fool proofing hole can effectively avoid the risk of short circuit caused by different lengths of installation screws.

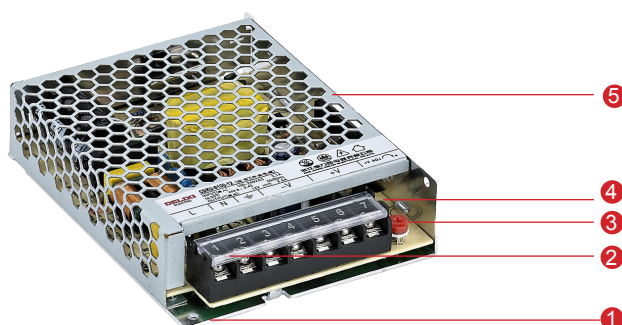
Selection Guide

Product name	Number of output circuits	Rated power	Output voltage
CDKU	S	☐	☐
	S: Single-loop output	35W 50W 75W 100W 150W 200W 350W	5V 12V 24V 36V 48V

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Description

CDKU-S switching power supply



- ① Two M3 mounting screw fixing hole
- ② Terminal block with transparent protective plastic cover as standard
- ③ Potentiometer for adjusting output voltage ($\pm 10\%$)
- ④ Green LED indicator for displaying working status
- ⑤ Output voltage selective switch (200 W, 350 W products only)

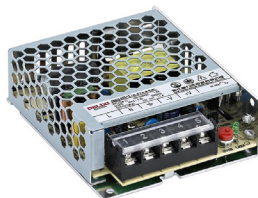
Technical parameters

Project		Technical parameters						
Rated power		35W	50W	75W	100W	150W	200W	350W
AC Input Voltage (AC)		100~264V (actual input voltage range: 90~264 V)					85~132V/176~264V (switch selection)	
AC input frequency		47~63 Hz						
Output stability		≤1%						
Load regulation		≤1% typical						
Output voltage incremental range		±10% (rated output voltage)						
Ripple and noise		≤1% peak (100mVp-p typical)						
Overvoltage protection		110%~140% (protection mode: turn off the output voltage and recover automatically after abnormality elimination)						
Overload protection		110%~150% (protection mode: hiccup mode, automatic recovery after abnormality elimination)						
Temperature protection		--					100±5℃	
Cooling method		Natural air cooling (below 200 W)						
Working environment		Operating temperature -30℃ ~ + 70℃ , relative humidity 20% -90% RH						
Overall dimensions (mm)		99*82*30		99*97*30	129*97*30	159*97*30	215*115*30	
Installation dimensions		Figure F1		Figure F2	Figure F3	Figure F4	Figure F5	Figure F6
Weight (kg)		0.23	0.23	0.25	0.34	0.48	0.66	0.76
Production compliance and electromagnetic compatibility	Production compliance standard	UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1/-2-16, CCC GB4943, 1, BSMI CNS14336-1, EAC TP 004, AS/NZS 60950.1 (by CB)						
	Withstand pressure	Input to output: 4KVAC, input to ground: 2KVAC, output to ground 1.25KAC/1min						
	Insulation resistance	Input to output, input to ground, output to ground/500VDC/25 ℃ /70% RH						
	Electromagnetic compatibility emission	Complies with EN55032 (CISPR32) Class B, EN55014, EN61000-3-2-.3 GB/T 9254, BSMI CNS13438, EAC TP TC 020						
	Electromagnetic compatibility immunity	Complies with EN6 1000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-2 (EN50082-2), Class A heavy industry, EAC TP TC 020						

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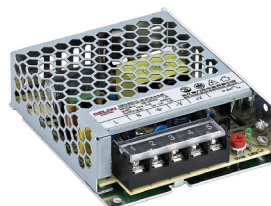
Technical parameters

35W



Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S35-5	5V	0~7A	80mvp-p	±2%	≥80%	CDKUS3505
CDKU-S35-12	12V	0~2.4A	120mvp-p	±1%	≥85%	CDKUS3512
CDKU-S35-24	24V	0~1.5A	150mvp-p	±1%	≥87%	CDKUS3524
CDKU-S35-36	36V	0~1A	200mvp-p	±1%	≥87%	CDKUS3536
CDKU-S35-48	48V	0~0.8A	200mvp-p	±1%	≥89%	CDKUS3548

50W



Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S50-5	5V	0~10A	80mvp-p	±2%	≥81%	CDKUS5005
CDKU-S50-12	12V	0~4.2A	120mvp-p	±1%	≥85%	CDKUS5012
CDKU-S50-24	24V	0~2.2A	150mvp-p	±1%	≥86%	CDKUS5024
CDKU-S50-36	36V	0~1.45A	200mvp-p	±1%	≥86%	CDKUS5036
CDKU-S50-48	48V	0~1.1A	200mvp-p	±1%	≥87%	CDKUS5048

75W



Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S75-5	5V	0~14A	80mvp-p	±2%	≥80%	CDKUS7505
CDKU-S75-12	12V	0~6A	120mvp-p	±1%	≥85%	CDKUS7512
CDKU-S75-24	24V	0~3.2A	150mvp-p	±1%	≥86%	CDKUS7524
CDKU-S75-36	36V	0~2.1A	200mvp-p	±1%	≥86%	CDKUS7536
CDKU-S75-48	48V	0~1.6A	200mvp-p	±1%	≥88%	CDKUS7548

100W



Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S100-5	5V	0~18A	100mvp-p	±2%	≥80%	CDKUS10005
CDKU-S100-12	12V	0~8.5A	120mvp-p	±1%	≥85%	CDKUS10012
CDKU-S100-24	24V	0~4.5A	150mvp-p	±1%	≥86%	CDKUS10024
CDKU-S100-36	36V	0~2.8A	200mvp-p	±1%	≥87%	CDKUS10036
CDKU-S100-48	48V	0~2.3A	200mvp-p	±1%	≥88%	CDKUS10048

CDKU-S Ultra-thin Switching Power Supply

Technical parameters

150W



Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S150-5	5V	0~22A	100mvp-p	±2%	≥80%	CDKUS15005
CDKU-S150-12	12V	0~12.5A	150mvp-p	±1%	≥85%	CDKUS15012
CDKU-S150-24	24V	0~6.5A	200mvp-p	±1%	≥87%	CDKUS15024
CDKU-S150-36	36V	0~4.3A	200mvp-p	±1%	≥87%	CDKUS15036
CDKU-S150-48	48V	0~3.3A	200mvp-p	±1%	≥89%	CDKUS15048

200W



Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S200-5	5V	0~40A	150mvp-p	±2%	≥80%	CDKUS20005
CDKU-S200-12	12V	0~17A	150mvp-p	±1%	≥85%	CDKUS20012
CDKU-S200-24	24V	0~8.8A	150mvp-p	±1%	≥87%	CDKUS20024
CDKU-S200-36	36V	0~5.9A	200mvp-p	±1%	≥87%	CDKUS20036
CDKU-S200-48	48V	0~4.4A	200mvp-p	±1%	≥89%	CDKUS20048

350W

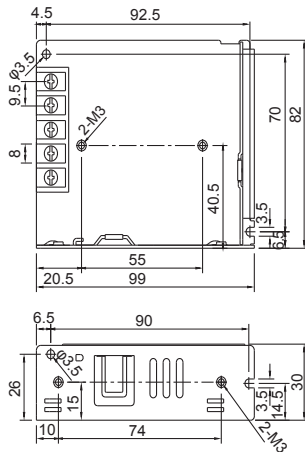


Model	Output voltage	Current range	Ripple and noise	Voltage accuracy	Efficiency	Order number
CDKU-S350-5	5V	0~60A	150mvp-p	±2%	≥80%	CDKUS35005
CDKU-S350-12	12V	0~29A	150mvp-p	±1%	≥85%	CDKUS35012
CDKU-S350-24	24V	0~14.6A	150mvp-p	±1%	≥87%	CDKUS35024
CDKU-S350-36	36V	0~9.7A	200mvp-p	±1%	≥88%	CDKUS35036
CDKU-S350-48	48V	0~7.3A	200mvp-p	±1%	≥89%	CDKUS35048

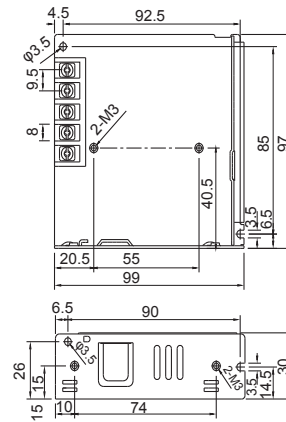
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Installation instructions

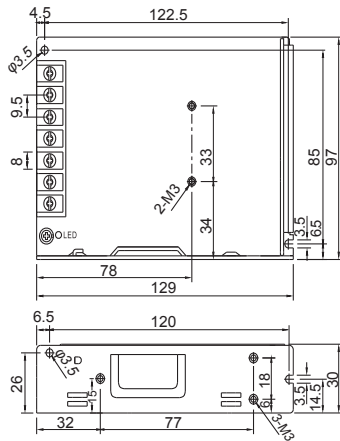
• CDKU-S35~50



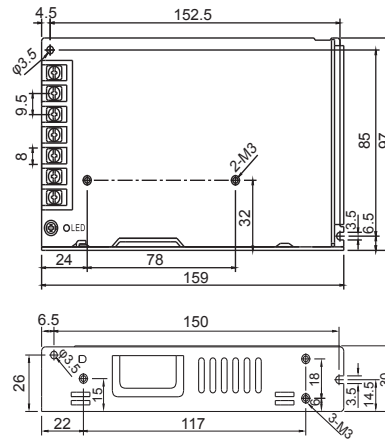
• CDKU-S75



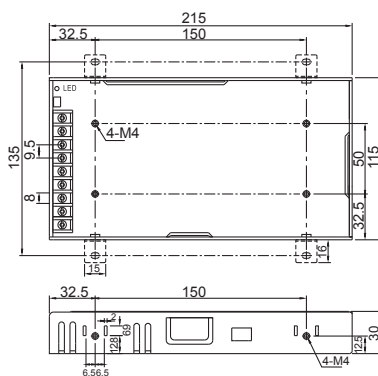
• CDKU-S100



• CDKU-S150



• CDKU-S200



• CDKU-S350

