

CDKU-S Ultra-thin switching power supply



Product introduction

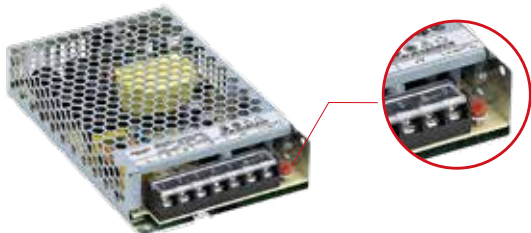
The CDKU-S series is a single-output closed switching power supply with an ultra-thin 30mm design and a full range of 90-264VAC input voltage (200W, 350W with toggle switch options). Can choose a group of 5V, 12V, 24V, 36V, 48V single output (special requirements can be customized). The product adopts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

Product characteristics

- 30mm ultra-thin design
- 90~264VAC full range AC input
- Low power consumption
- High frequency PWM control technology
- 100% full load burn-in test
- Over voltage, overload, short circuit, over temperature (200W, 350W) protection
- LED work indicator
- CE、RoHs、EMC
- Working height 2000m above sea level

Small size

Advantage Selling point: The full series of 30mm thickness design, size than the market equivalent mainstream products occupy an absolute advantage Customer benefits: the same power segment of similar products, for customers to save 20% installation space



Complete specifications

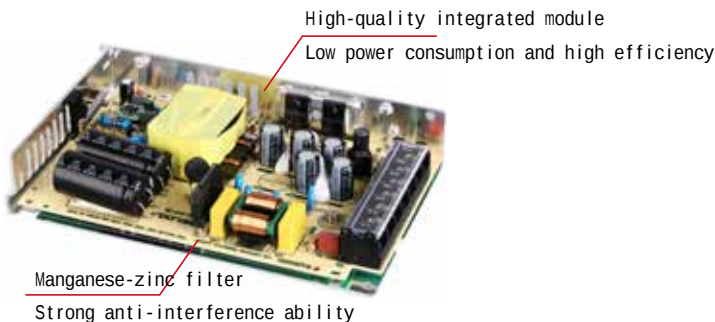
Advantage Selling point: Provide 7 different power segment specifications of power supply products, output voltage $\pm 10\%$ adjustable Customer benefits: wide selection of products, cost-effective, reduce unnecessary loss



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Excellent performance

Advantage Selling point: The use of high-quality raw materials, excellent product performance
Customer benefits: no-load power consumption as low as 0.2~1W, efficiency $\approx 89\%$



Safety protection

Advantage selling point: Standard terminal protection cover
Customer benefits: Prevent accidental contact with terminal leading to electric shock, effectively improve the safety of use

"Burp" protection

Advantage Selling point: The full range of product overload short-circuit protection is "hiccup" protection mode Customer benefits: to meet the needs of OEM customers for protection methods

Easy to install

Advantages and selling points: plate installation, rail installation (installation accessories need to be selected) 2 installation methods flexible choice, anti-hole installation
Customer benefits: To meet the requirements of different installation methods, anti-hole can effectively avoid the risk of short circuit caused by different lengths of screws

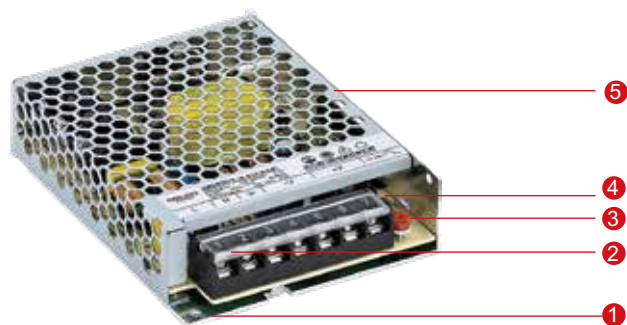
Selection guide

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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Instructions

CDKU-S Switching power supply



- 1 Two M3 mounting screws securing holes
- 2 Terminal with transparent protective plastic cover as standard
- 3 Potentiometer to adjust output voltage ($\pm 10\%$)
- 4 Green LED indicator indicating working status
- 5 Output voltage selector switch (200W, 350W products only)

Technical parameter

Item		Technical parameter						
Rated power		35W	50W	75W	100W	150W	200W	350W
AC Input Voltage (AC)		100~264V(Actual input voltage range: 90~264V)					85~132V/176~264V(Switch selection)	
Ac input frequency		47~63 Hz						
Output stability		1%						
Load adjustment rate		1% Typical value						
Output voltage fine-tuning range		±10% (Rated output voltage)						
Ripple and noise		1% peak value (100mVp-p typical value)						
Overvoltage protection		110%~140%(Protection mode: turn off the output voltage, automatically recover after the exception is eliminated)						
Overload protection		110%~150%(Protected mode: hiccup mode. After the exception is removed, the system automatically recovers)						
Temperature protection		--					100±5℃	
Cooling mode		Natural air cooling (200W 以下)						
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	
Mounting dimension		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
Safety and electromagnetic	Safety regulation	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 voltage	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	Conform to EN55032(CISPR32)Class B,EN55014,EN61000-3-2-3 GB/T 9254,BSMI CNS13438,EAC TP TC 020						
	Electromagnetic compatibility immunity	Conform to EN61000-4-2,3,4,5,6,8,11,EN61000-6-2(EN50082-2)Class A heavy industry standard,EAC TP TC 020						

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Technical parameter

35W

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

50W

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

75W

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

100W

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

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Technical parameter

150W



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

200W



Product name	Output voltage	Current range	Ripple 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

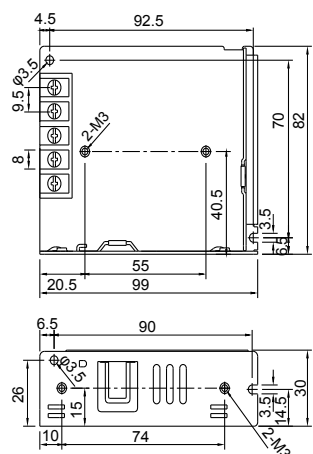


Product name	Output voltage	Current range	Ripple noise	Voltage accuracy	Efficiency	Order number
CDKU-S350-5	5V	0~60A	150mvp-p	±2%	≥80%	CDKUS35005
CDKU-S350-12	12V	0~29A	150mvp-p	±1%	≥85%	CDKUS35012
CDKU-S350-24	24V	0~14.6A	150mvp-p	±1%	≥87%	CDKUS35024
CDKU-S350-36	36V	0~9.7A	200mvp-p	±1%	≥88%	CDKUS35036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

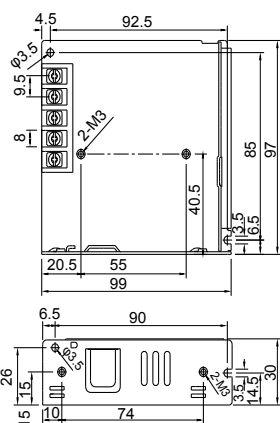
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Installation instructions

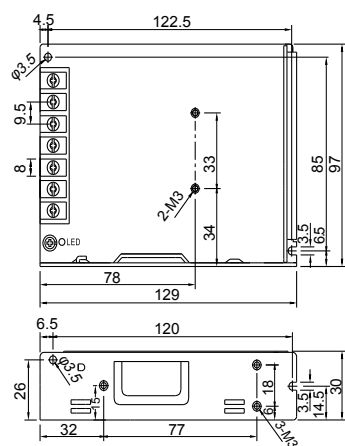
• CDKU-S35~50



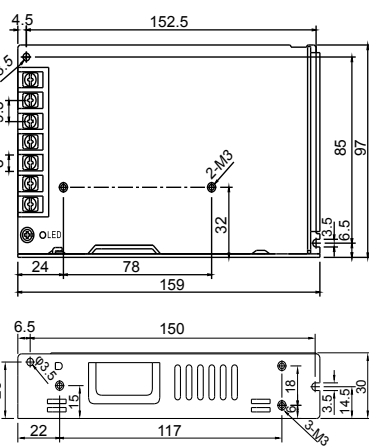
• CDKU-S75



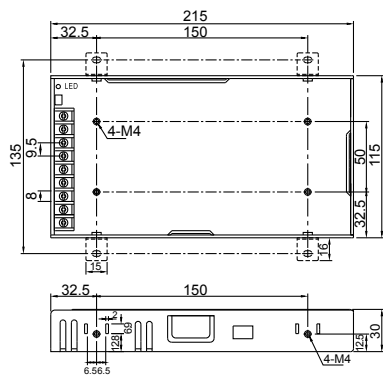
• CDKU-S100



• CDKU-S150



• CDKU-S200



• CDKU-S350

