

KSE-S3000

SINGLE GROUP OUTPUT
POWER SUPPLY



EMC CB CE



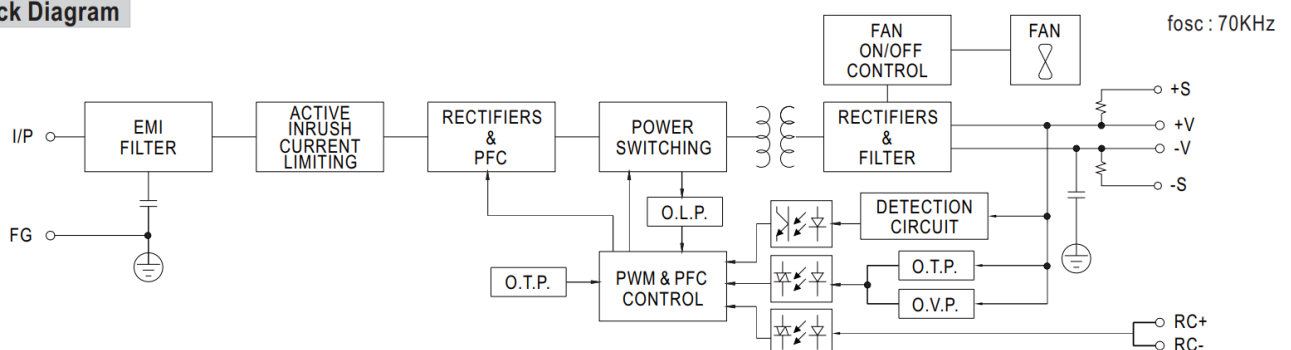
Product overview

The KSE-S3000 series is a single group output closed type power supply that uses 110/220VAC selective AC input. The entire series provides 12V, 24V, 36V, 48V, 72V, 150V, 220V, 380V and 440V output.

In addition to its efficiency of up to 90%, the metal mesh housing intelligent fan design enhances heat dissipation capabilities, making the KSE-S3000 more stable in harsh environments, making it easy for the terminal system to meet international energy requirements. KSE-S3000 has complete protection functions; It complies with TUV EN60950-1, EN60335-1, EN61558-1/-2-16, UL60950-1 and GB4943 international safety regulations. The KSE-S3000 series provides a cost-effective solution for various industrial applications.

Principle diagram

Block Diagram



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Technical parameter

Type	Technical Indicators									
Output	DC voltage	12V	24V	36V	48V	72V	150V	220V	380V	440V
	Rated current	200A	125A	83.3A	62.5A	41.6A	20A	13.6A	7.9A	6.8A
	Rated power	2400W 180VAC-264VAC 1500W 90VAC-180VAC	3000W 180VAC-264VAC					1500W 90VAC-180VAC		
	Ripple and noise ①	<150mV	<250mV	<350mV	<480mV	<600mV	<800mV	<1000mV	<1200mV	<1300mV
	Voltage accuracy	<±1%								
	Output voltage regulating range	± 10% local potentiometer fine adjustment								
	Load adjustment rate	<±1%								
	Linear adjustment rate	<±1%								
Input	Voltage range	90-265VAC 45Hz~65Hz								
	Efficiency (typical) ②	>93%	>94%	>94%	>94%	>94%	>94%	>95%	>95%	>95%
	Power factor	>0.95 230VAC at full load								
	Working current	<17A 230VAC								
	Impulse current	cold boot: 40A @110VAC, 60A @220VAC								
	Start, rise, hold time	1000ms-80ms-20ms @230VAC								
Protect	Overload protection	Rated output power 105% -120%								
	Overvoltage protection	105%-125%					105%			
	Under voltage protection	≤6V	≤12V	≤18V	≤24V	≤36V	≤75V	≤110V	≤190V	≤220V
	Short circuit protection	Turn off output (remove self recovery)								
	Over temperature protection	Fan starts at ≥ 55 °C, shuts off output at ≥ 85 °C, self recovers								
Function *	Auxiliary power supply	12V@0.5A Please refer to the functional manual								
	Remote control switch PS	Using electrical signals or passive switch signals for programmable remote control ON: open circuit OFF: short circuit Please refer to the functional manual								
	Remote control Detection ± S	Compensatable line voltage drop up to 500mV, please refer to the functional manual								
	Equal current sc	Support 9+1 parallel redundancy, please refer to the functional manual								
	Alarm signal output PG	TTL signal output for POWER-GOOD, please refer to the functional manual								
	LED signal	LED light guide column status indicator, red represents fault or standby, green represents normal operation, both off represent no input (not available in standard configuration)								
	Three in one regulation	DIM ± can have PWM, 100K potentiometer, 0-10V adjustable constant current, constant voltage source output to drive peripherals. Please refer to the functional manual								
	Pwm simulation regulation	1KHz PWM analog output, which can be cascaded to the DIM+terminal of the next power supply to synchronously regulate the output of multiple power supplies. Please refer to the functional manual								
	Local potentiometer ADJ	The output voltage and current allow the local potentiometer to be adjusted within ± 10% of the rated output								
	Output voltage adjustment (PV)	Adjust the DA-V external 0-5vdc between 50~125% rated output voltage, please refer to the functional manual								
	Output constant current adjustment (PC)	Adjust the DA-I external 0-5vdc between 0 and 100% rated output current, please refer to the functional manual								

* Customized configuration. Functional manual is not available for the standard configuration power supplies.

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Technical parameter

Type	Technical Indicators	
Function (optional)	Mcu interface (optional)	/
	LCD digital display	After configuring the MCU interface board, it can display voltage, current, and temperature digitally, and has multiple built-in charging curves. In charging mode, the charging voltage and current can be preset through the panel buttons
	RS485 digital interface	After configuring the MCU interface board, data transmission and reception can be achieved through RS485 communication. The address code is 4 bits, the baud rate is 9600, and it can be sent in groups or individually. Please refer to the functional manual for the communication protocol
Environmental Science	Working temperature And humidity	-25°C~+55°C; 20%~90RH
	Storage temperature And humidity	-40°C~+85°C; 10%~95RH
Safety regulations	Isolation voltage	Input-output: 2KVAC Input-case: 2KVAC output-case: 1.5KVAC
	Leakage current	Input-output <5mA at 1.5KVAC; <1mA at 240VAC
	Insulation resistance	Input-output input-shell, output-shell: 500VDC/100M Ω
Other	Size	300*135*44mm
	Net weight/gross weight	2.3kg
	Cooling method	Forced air cooling 23.5CFM, noise 45dB
Remarks	① The ripple and noise measurement method adopts the reliability measurement method: a 12 "twisted pair cable is used, and capacitors of 0.1uF and 47uF are connected in parallel at the terminal, and the peak to peak value is measured at a bandwidth of 20MHz. ② Efficiency is tested at an input voltage of 230VAC, rated load, and an ambient temperature of 25 °C. Accuracy: including setting error, linear adjustment rate, and load adjustment rate. Linear Adjustment Rate Test Method: Test from Low Voltage to High Voltage under Rated Load. Load adjustment rate testing method: from 0% to 100% rated load. The start-up time is measured in a cold start state, and rapid and frequent power on and off may increase the start-up time. When the operating altitude is higher than 2000 meters, the operating environment temperature needs to be lowered by 5 °C/1000 meters.	

External dimensions

