

1U SERIES (250-600W)



UL/CUL, CSA, TÜV, FCC, NEMKO, BSMI, CE, CCC

GENERAL/ALLGEMEINES

FSP 1U-Schaltnetzteile mit fünf bis neun Ausgängen, 68-80% Effizienz, Weitbereichseingang und aktiver PFC für die industrielle Anwendung. Diese PSU-Serie verfügt über verschiedene Schutzschaltungen und hält viele wichtige Normen und Zulassungen ein.

FSP 1U Switching Powersupplies with five till nine Outputs, 68-80% Efficiency, Full range input and Active PFC for industrial application. This PSU Series comes with several Protections and complies with many important Norms and Approvals.

■ SONDERFUNKTIONEN

Weitbereichseingang
C14 Eingang
Ausgangsspannungen: +3,3V; +5V; +12V1;
+12V2; +12V3; +12V4; -12V; -5V; +5Vsb
Hohe Effizienz bei niedriger Restwelligkeit
Hohe MTBF von bis zu 100000 Stunden
Abmessungen:
190x100x40,5mm; 220x100x40,5mm;
250x100x40,5mm; 264x100x40mm (LxBxH)

■ Schutzschaltungen

OVP, OCP, Kurzschlussfest

■ Sicherheitsnormen

Gemäß IEC60950:
UL/CUL, TÜV, NEMKO, CE, CCC, CSA,
BSMI, FCC

■ SPECIAL FEATURES

Full range input
C14 Inlet
Output voltages: +3,3V; +5V; +12V1; +12V2;
+12V3; +12V4; -12V; -5V; +5Vsb
High Efficiency and low Ripple & Noise
High MTBF until 100000 hours
Dimensions:
190x100x40,5mm; 220x100x40,5mm;
250x100x40,5mm; 264x100x40mm (LxWxH)

■ Protections

OVP, OCP, Short circuit

■ Safety norms

According to IEC60950:
UL/CUL, TÜV, NEMKO, CE, CCC, CSA, BSMI,
FCC

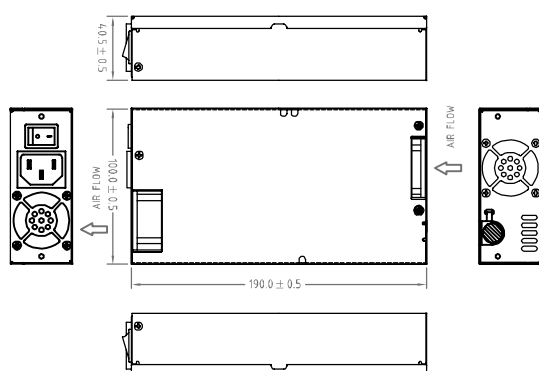
SPECIFICATION:

	Productname	Details	+3,3V	+5V	+12V(1)	+12V(2)	+12V(3)	+12V(4)	-12V	-5V	+5Vsb
Output	FSP250-701UH (80+)	Load Min-Max(A)	0,5~16	0,5~18	1~16	1~16	-	-	0,1~0,8	0,1~0,3	0,1~2,5
		Load Regulation(%)	5	5	5	5	-	-	10	10	5
		Ripple & Noise(mVpp)	50	50	120	120	-	-	120	100	50
	FSP250-50PLB (1U)	Load Min-Max(A)	0,5~18	0,3~20	1~16	-	-	-	0,1~0,5	-	0,1~2
		Load Regulation(%)	5	5	5	-	-	-	10	-	5
		Ripple & Noise(mVpp)	50	50	120	-	-	-	120	-	100
	FSP300-701UH (80+)	Load Min-Max(A)	0,5~16	0,5~16	1~16	1~16	-	-	0,1~0,8	0,1~0,3	0,1~2,5
		Load Regulation(%)	5	5	5	5	-	-	10	10	5
		Ripple & Noise(mVpp)	50	50	120	120	-	-	120	100	50
	FSP350-701UH (80+)	Load Min-Max(A)	0,5~16	0,5~18	1~16	1~16	-	-	0,1~0,8	0,1~0,3	0,1~2,5
		Load Regulation(%)	5	5	5	5	-	-	10	10	5
		Ripple & Noise(mVpp)	50	50	120	120	-	-	120	100	50
	FSP400-601UG (80+)	Load Min-Max(A)	0,5~20	0,5~20	1,5~16	1,5~16	-	-	0,1~0,5	-	0,1~2,5
		Load Regulation(%)	5	5	5	5	-	-	10	-	5
		Ripple & Noise(mVpp)	50	50	120	120	-	-	120	-	100
	FSP460-701UG (80+ Bronze)	Load Min-Max(A)	0,5~20	0,5~20	1~16	1~16	1~16	-	0,1~0,5	-	0,1~2,5
		Load Regulation(%)	5	5	5	5	5	-	10	-	5
		Ripple & Noise(mVpp)	50	50	120	120	120	-	120	-	50
	FSP500-80BU	Load Min-Max(A)	0,2~30	0,2~30	0,2~18	0,2~15	0,2~15	-	0,1~0,8	0,1~0,3	0,1~2
		Load Regulation(%)	5	5	5	5	5	-	10	10	5
		Ripple & Noise(mVpp)	50	50	120	120	120	-	120	50	50
	FSP600-90EV	Load Min-Max(A)	0,5~25	0,5~30	0,5~16	0,5~16	0,5~16	0,5~16	0,1~0,5	0,1~0,5	0,1~3
		Load Regulation(%)	5	5	5	5	5	5	10	10	5
		Ripple & Noise(mVpp)	50	50	120	120	120	120	120	120	50
Efficiency			FSP250-50PLB(1U): 68%; FSP250-FSP460: 80%; FSP500: 70%; FSP600: 76%								
PFC			Active								

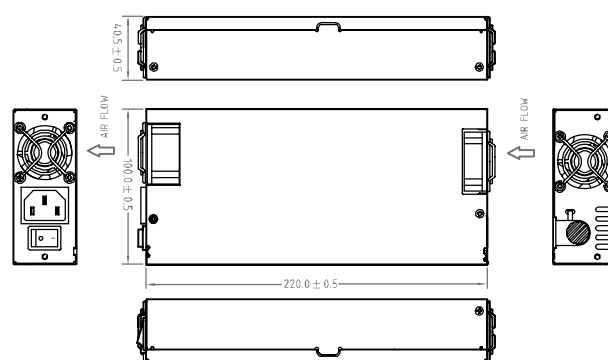
Input	Voltage	115/230V
	Current	FSP250-FSP300: 5/3; FSP350: 6/3; FSP400: 6,3/3; FSP460: 8/4; FSP500-FSP600: 9/5
	Inrush Current	FSP250-FSP460: 50/80; FSP500-FSP600: 80/120(A;115V/230V)
	Leakage Current	3,5mA at 254VAC 50Hz
	Frequency	47-63Hz
Protection		OVP, OCP, Shortcircuit
Environment	Operating	0~+50°C; RH 5-95% (Temp in °C; Humid in %)
	Storage	-20~+65°C; RH 5-95% (Temp in °C; Humid in %)
Others	Size(LxWxH mm) & Weight	FSP250-350:190x100x40,5; FSP400-460:220x100x40,5; FSP500:250x100x40,5; FSP600:264x100x40 1,8kg
	Case Material	Aluminium
	Safety Norms	UL/CUL, CSA, FCC, TUV, NEMKO, CE, BSMI, CCC
	Withstand Voltage	I/P-O/P: 1800VAC 1 sec; I/P-FG: 1800VAC 1sec
	MTBF	100000h
	Cooling	Dual-Fan (40mm); FSP250-50PLB (1U): Fan (40mm)
	Fan Noise	<40DB (100%)

MECHANICAL DETAILS

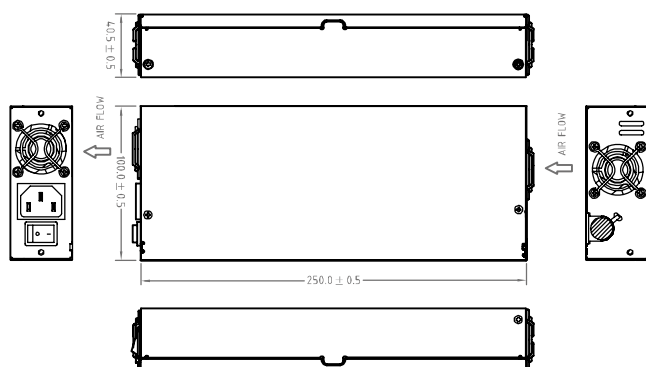
【FSP250-FSP350】



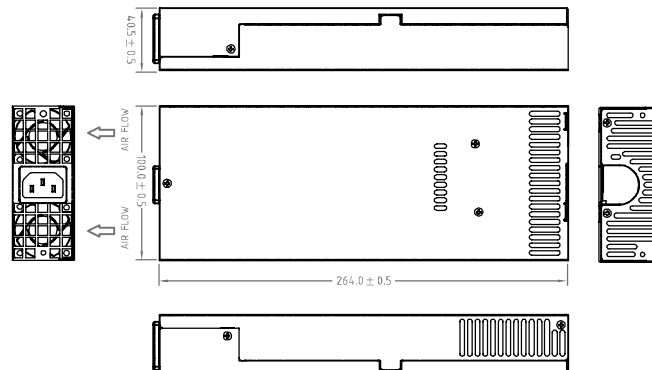
【FSP400-FSP460】



【FSP500-80BU】



【FSP600-90EV】



2U SERIES (400-650W)



UL/CUL, TÜV, NEMKO, CE, CCC, CSA, BSMI, FCC

GENERAL/ALLGEMEINES

FSP 2U-Schaltnetzteile mit fünf bis neun Ausgängen, 68-80% Effizienz, Weitbereichseingang und aktiver PFC für die industrielle Anwendung. Diese PSU-Serie verfügt über verschiedene Schutzschaltungen und hält viele wichtige Normen und Zulassungen ein.

FSP 2U Switching Powersupplies with five till nine Outputs, 68-80% Efficiency, Full range input and Active PFC for industrial application. This PSU Series comes with several Protections and complies with many important Norms and Approvals.

■ SONDERFUNKTIONEN

Weitbereichseingang
C14 Eingang
Ausgangsspannungen: +3,3V; +5V; +12V1;
+12V2; +12V3; +12V4; -12V; -5V; +5Vsb
Hohe Effizienz bei niedriger Restwelligkeit
Hohe MTBF von bis zu 100000 Stunden
Abmessungen: 240x100x70mm;
300x106x82,2mm (LxWxH)

■ Schutzschaltungen

OVP, OCP, Kurzschlussfest

■ Sicherheitsnormen

Gemäß IEC60950:
UL/CUL, TÜV, NEMKO, CE, CCC, CSA,
BSMI, FCC

■ SPECIAL FEATURES

Full range input
C14 Inlet
Output voltages: +3,3V; +5V; +12V1; +12V2;
+12V3; +12V4; -12V; -5V; +5Vsb
High Efficiency and low Ripple & Noise
High MTBF until 100000 hours
Dimensions: 240x100x70mm;
300x106x82,2mm (LxWxH)

■ Protections

OVP, OCP, Short circuit

■ Safety norms

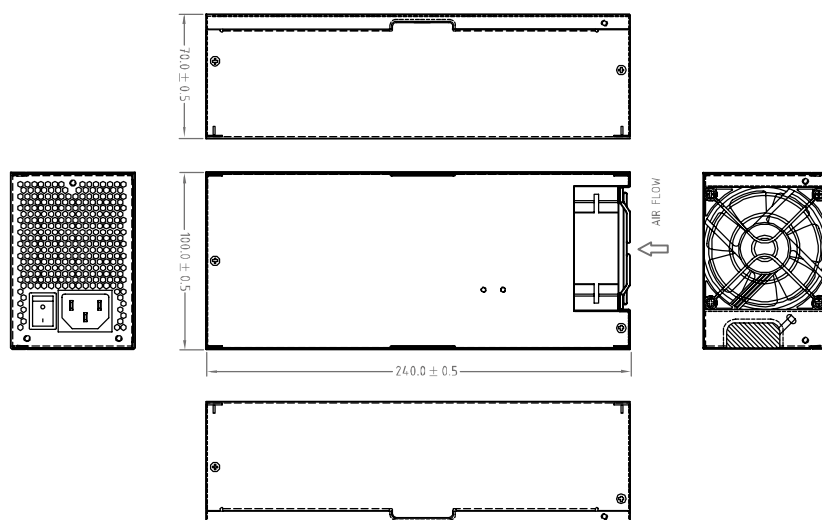
According to IEC60950:
UL/CUL, TÜV, NEMKO, CE, CCC, CSA, BSMI,
FCC

SPECIFICATION:

	Productname	Details	+3,3V	+5V	+12V(1)	+12V(2)	+12V(3)	+12V(4)	-12V	-5V	+5Vsb	
Output	FSP400-602UC (80+)	Load Min-Max(A)	0,5~20	0,5~20	1,5~16	1,5~16	-	-	0,1~0,5	-	0,1~2,5	
		Load Regulation(%)	5	5	5	5	-	-	10	-	5	
		Ripple & Noise(mVpp)	50	50	120	120	-	-	120	-	50	
	FSP500-702UC (80+)	Load Min-Max(A)	0,5~24	0,5~20	1~15	1~15	1~15	-	0,1~0,5	-	0,1~2,5	
		Load Regulation(%)	5	5	5	5	5	-	10	-	5	
		Ripple & Noise(mVpp)	50	50	120	120	120	-	120	-	100	
	FSP550-802U	Load Min-Max(A)	0,5~30	0,5~30	0,3~10,5	0,3~10,5	0,5~14	0,3~8	0,1~0,8	0,1~0,3	0,1~2	
		Load Regulation(%)	5	5	5	5	5	5	10	10	5	
		Ripple & Noise(mVpp)	50	50	120	120	120	120	120	120	50	
	FSP650-802U	Load Min-Max(A)	0,5~30	0,5~30	0,3~12,5	0,3~12,5	0,5~14	0,3~8	0,1~0,8	0,1~0,3	0,1~2	
		Load Regulation(%)	5	5	5	5	5	5	10	10	5	
		Ripple & Noise(mVpp)	50	50	120	120	120	120	120	120	120	
	Efficiency		FSP400-FSP500: 80%; FSP550-FSP650: 70%									
PFC		Active										
Input	Voltage		115/230V									
	Current		FSP400: 6,3/3; FSP500: 10/5; FSP550: 7/3,5; FSP650: 8/4(A;115V/230V)									
	Inrush Current		50A									
	Leakage Current		3,5mA at 254VAC 50Hz									
	Frequency		47-63Hz									
Protection			OVP, OCP, Shortcircuit									
Environment	Operating		0~+50°C; RH 5-95% (Temp in °C; Humid in %)									
	Storage		-20~+65°C; RH 5-95% (Temp in °C; Humid in %)									
Others	Size(LxWxH) & Weight		FSP400-FSP500: 240x100x70mm; FSP550-FSP650: 300x106x82,2mm; 2Kg									
	Case Material		Aluminium									
	Safety Norms		UL/CUL, CSA, FCC, TUV, NEMKO, CE, BSMI, CCC, VDE									
	Withstand Voltage		I/P-O/P: 1800VAC 1 sec; I/P-FG: 1800VAC 1sec									
	MTBF		100000h									
	Cooling		FSP400-FSP500: 1xFan (80mm); FSP550-FSP650: 2xFan (80mm)									
	Fan Noise		<40DB (100%)									

MECHANICAL DETAILS

【FSP400-FSP500】



【FSP550-FSP650】

