TDK-Lambda

	IA599-01-01H					
	FPS1000 SERIES SPECIFICATIONS:		FPS1000-12	FPS1000-24	FPS1000-48	
1	Rated output voltage	V	12	24	48	
2	Output voltage set point	V	12+/-1%	24+/-1%	48+/-1%	
3	Output voltage range	V	10.5~13.2	21.5~29	43~58	
4	Maximum Output Current (Refer to Fig.1)	Α	72	40	21	
5	Maximum output power	W	864	960	1008	
6	Input voltage / frequency range (*1)		85~265Va	ac continuous, 47~63Hz, Sin	gle phase	
7	Maximum input current (at 100/200Vac)	Α	12.0/6.0			
8	Power Factor (Typ)		>0.98 at 115/230V and maximum output power			
9	Efficiency (Typ) (*2)	%	81/83%	84/86%	85/88%	
10	Inrush current (*3)	Α		Less than 40A	-	
11	Hold-up time	mS	20mS typical at 100Vac inp	20mS typical at 100Vac input, rated output voltage and less than 80% of rated load.		
12	Maximum line regulation (*5)			0.40%		
13	Max load regulation (*6)			0.80%		
14	Output Ripple and noise PtP (*4)	mV	150	200	300	
15	Temperature stability		0.05% of rated Vout for 8hrs a	after 30min warm-up. Consta	int line, load and temperature.	
16	Temperature coefficient	PPM/°C		200		
17	Remote sensing (*7)		Possible. Refer to Instruction Manual.			
18	Parallel operation (*9)		Possible. Refer to Instruction Manual.			
19	Series operation		Possible. Refer to Instruction Manual.			
20	Over current protection		104%~125%	of maximum output current. F	Refer to Fig. 1	
21	Over voltage protection (*8)	V	14.3~15.7	31~34	62~66	
22	Over temperature protection		Inverter	shut down method, automat	ic reset.	
23	Remote On/Off control		By electrical signal or dry contact. ON: 0~0.6V or short. OFF: 2~15V or open.			
24	DC OK signal		Open collector signal. On when Vout>80+/-5% rated output. Max.sink current: 10mA			
25	Over-Temp. warning		Open collector signal. Refer to Instruction Manual			
26	AC fail signal		Open collector signal. Refer to Instruction Manual			
27	Auxiliary power supply		11.2~12.5VDC. 0.25A Maximum output current.			
28	Vout voltage trimming		Possible, via Vout Trim pin in the I/O connector. Refer to Instruction Manual.			
29	Front panel indicators		AC OK, DC OK, DC FAIL			
30	I ² C Interface		Optional. Refer to Instruction Manual.			
31	Operating temperature- models without IEC inlet		0~50°C: 100% load. Derate 2%/°C, 50°C to 60°C, Derate 2.5%/°C, 60°C to 70°C.			
	models with IEC inlet		0~50°C: 100% load. Derate 2%/°C, 50°C to 60°C.			
32	Storage temperature		-30~85°C			
33	Operating humidity		10~90% RH, no condensation.			
34	Storage humidity		10~95% RH, no condensation.			
35	Cooling		By Internal Fans. Variable speed control.			
36	Vibration		Built to meet ETS 300 019			
37			Built to meet E 15 300 019			
38	Conducted emission (*40)		Built to meet EN55032B, FCC part 15J-B, VCCI-B			
39	raulaled emission (*10)					
40	Applicable safety standards		IEC 62368-1 UL62368-1 CSA22.2 No.62368-1 EN62368-1.			
41	Ivvitnstand voltage		Input-Output: 3000vrms, Tmin. Input-Ground: 2000vrms, Tmin. Output-Ground:500Vrms, Tmin.			
42			Note than 100Monm at 25 C and 70% KH. Output-Ground: 500Vdc			
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44		ку	107-/1	2.0 v200mm Pofor to Outling D	rowing	
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Notes:

*1: For cases where conformance to various safety standards (UL, EN etc.) is required,

to be described as 100-240Vac (50/60Hz).

*2: At 100/200Vac, rated load and 25°C ambient temperature.

*3: Not applicable for the noise filter inrush current less than 0.2mS.

*4: Measured with JEITA RC-9131A 1:1 probe, 20MHz B.W.

*5: From 85~132Vac or 170~265Vac, constant load.

*6: From No-load to Rated load, constant input voltage. Measured at the sensing point in Remote sense.

*7: Remote sensing can compensate up to 1V drop on each load wire.

*8: Inverter shut down method. Reset by AC voltage recycle or by On/Off control.
*9: Derate Maximum output power by 10% for input voltage less than 100V_{RMS}.

*10: For FPS1000-12/P(S), when used not with FPS-S1U or FPS-T1U racks, an EMI suppressor clamp should be attached to the AC cable, as close as possible to the AC inlet, to meet class B.

Model	FPS1000	FPS1000	FPS1000
V/I	-12	-24	-48
V1 (V)	12	24	48
V2 (V)	13.2	29	58
I1 (A)	66	33	17.25
I2 (A)	72	40	21



Fig. 1: Rated output current