FPS1000 Specifications

ITEMS/UNITS \ MODEL			FPS1000-12	FPS1000-24	FPS1000-48
Input	Voltage Range (*1)	V	AC85 - 265 continuous (Universal input)		
	Frequency (*1)	Hz	47 - 63, single phase		
	Power Factor (115/230VAC)(typ)		More than 0.98 at maximum output power		
	Efficiency (typ) (*2)	%	81 / 83	84 / 86	85 / 88
	Current (100/200VAC) (max)	A	12.0 / 6.0		
	Inrush Current (*3)	A	Less than 40		
	Leakage Current (230VAC)	mA	Less than 1.1		
Output	Nominal Voltage	VDC	12	24	48
	Maximum Current (*Fig.1)	A	72	40	21
	Maximum Power	W	864	960	1008
	Voltage Set Point		12V +/-1%	24V +/-1%	48V +/-1%
	Maximum Line Regulation (*5)		0.40%		
	Maximum Load Regulation (*6)		0.80%		
	Temperature Coefficient		200PPM/℃		
	Warm Up Drift		0.1% of rated Vout for 8hrs after 30min warm-up. Constant line, load and temperature.		
	Maximum Ripple & Noise (*4)	mVp-p	150	200	300
	Hold-up Time (100VAC)(typ)	ms	20 at rated output voltage and less than 80% of rated load.		
	Voltage Adjustable Range	VDC	10.5 - 13.2	21.5 - 29	43 - 58
Function	Over Current Protection (*Fig.1)		105 - 125% of maximum output current.		
	Over Voltage Protection (*8)	VDC	14.3 - 15.7	31 - 34	62 - 66
	Over Temperature Protection		Inverter shut down method, automatic reset.		
	Remote Sensing (*7)		Possible. Refer to instruction manual.		
	Remote ON/OFF Control		By electrical signal or dry contact. ON: 0 - 0.6V or short. OFF: 2 - 15V or open.		
	Parallel Operation (*9)		Possible. Refer to instruction manual.		
	Series Operation (*10)		Possible. Refer to instruction manual.		
	Over Temperature Alarm Signal		Open collector signal. Normal: ON, Max.sink current: 10mA.		
	DC OK signal		Open collector signal. On when Vout>80+/-5% rated output. Max.sink current: 10mA		
	AC Fail Signal		Open collector signal. On when Vin > 85VAC, Max.sink current: 10mA.		
	AUX-BIAS Power Supply		11.2 - 12.5VDC. 0.25A maximum output current.		
	Output Voltage Trimming		Possible, via Vout trim pin in the I/O connector. Refer to instruction manual.		
	Front Panel Indicators		AC OK, DC OK, DC FAIL		
	I²C Interface		Optional. Refer to instruction manual.		
Environment	Operating Temperature	℃	0 to 50: 100% load. Derate 2%/℃, 50 to 60		
	Storage Temperature	℃	-30 to 85		
	Operating Humidity	%RH	10 - 90, no condensation.		
	Storage Humidity	%RH	10 - 95, no condensation.		
	Vibration		Built to meet ETS 300 019		
	Shock		Built to meet ETS 300 019		
	Cooling		By internal fans. Variable speed control.		
Isolation	Withstand Voltage		Input-Output: 3000Vrms, 1min. Input-Ground: 2000Vrms, 1min. Output-Ground: 500Vrms, 1min.		
	Isolation Resistance		More than 100Mohm at 25℃ and 70% RH. Output-Ground: 500VDC		
Standards	Safety Standards		Approved by UL60950-1, EN60950-1, CSA C22.2 No.60950-1		
	EMI (*11)		EN55022B, FCC part 15J-B, VCCI-B		
Mechanical	Weight (typ)	g	2000		
	Size (W x H x D)	mm	127 x 41 x 290 (Refer to outline drawing.)		

(*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℃ ambient temperature.

(*3) Not applicable for the noise filter inrush current less than 0.2ms.

(*4) Measured with JEITA RC-9131 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) Series operation is not applicable for units with I^2C bus option (/S, /PS model).

(*11) For FPS 1000-12/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 / V1	FPS1000 -12	FPS1000 -24	FPS1000 -48
V1	12V	24V	48V
V2	13.2V	29V	58V
I1	66A	33A	17.25A
I2	72A	40A	21A

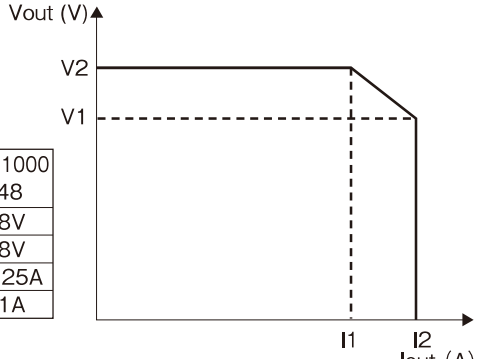

Fig.1 Rated output current vs rated output voltage