HFE2500 SERIES SPECIFICATIONS:

				HFE2500-12	HFE2500-24	HFE2500-48
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	9.6~13.2	19.2~29.0	38.4~58
4	Rated Output Current at 180 < Vin ≤ 265Vac	(*1)	A	200	104	52
5	Rated Output Current at 170 ≤ Vin ≤ 180Vac	(*1)	A	200	100	50
6	Rated Output Current at 100 ≤ Vin ≤ 132Vac	(*1)	A	125	62.5	31.25
7	Rated Output Current at 85V ≤ Vin < 100Vac	(*1)	A	Linear derating 1.3% per 1VAC from output current at 100Vac.		
8	Rated output power 180 < Vin ≤ 265Vac		W	2400	2496	2496
9	Rated output power 170 ≤ Vin ≤ 180Vac		W	2400		
10	Rated output power 100 ≤ Vin ≤ 132Vac		W	1500	1500	1500
11	Rated output power 85Vac ≤ Vin < 100Vac		W	Linear derating 1.3% per 1Vac from output power at 100Vac.		
12	Input voltage / frequency range	(*2)(*16)	---	85~265Vac continuous, 47~63Hz, Single phase		
13	Maximum input current	(*3)	A	15/12		
14	Power Factor (Typ) (at 115/230Vac)	(*3)	---	>0.99/0.98 at maximum output power		
15	Efficiency at 75% rated load (Typ)	(*3)	%	90/92	90/92	91/93
16	Efficiency at 100% rated load (Typ)	(*3)	%	89/91	89/91	90/92
17	Inrush current	(*4)	A	Less than 50		
18	Hold-up time	(*13)	mS	≥ 10mS typical at 115/230Vac input, rated output voltage and less than 80% of rated load.		
19	Maximum line regulation	(*5)	%	0.25		
20	Maximum load regulation	(*6)	%	0.50		
21	Output Ripple and noise P-P (*7)	0~+70°C	mV	240	240	480
		-10~0°C	mV	360	360	780
22	Temperature stability		---	0.05% of rated Vout for 8hrs after 30min warm-up. Constant line,load and temperature.		
23	Temperature coefficient		PPM/°C	+/-200		
24	Remote sensing	(*8)	---	Possible. Refer to Instruction Manual.		
25	Parallel operation	(*9)	---	Possible. Single wire current share, 5% accuracy of rated Iout, up to 8 units of the same voltage rating		
26	Series operation		---	Possible (with external diodes), 2 units. Refer to Instruction Manual.		
27	Over current protection	85 ≤ Vin ≤ 132Vac		Minimum 105% of rated output current.		
		170 ≤ Vin ≤ 265Vac	---	105~120% of rated output current.		
28	Over voltage protection	(*10)	V	Tracking OVP, range: 1.1xVout, accuracy: +/-3%		
29	Over temperature protection		---	Inverter shut down method, automatic recovery		
30	Remote On/Off control		---	Two complementary inputs. By electrical signal or dry contact. Refer to Instruction Manual.		
31	"DC OK" signal	(*14)	---	Tracking, On when Vout>90+/-5% of output voltage setting Refer to Instruction Manual.		
32	Over-Temperature warning	(*14)	---	Refer to Instruction Manual.		
33	"AC FAIL" signal	(*14)	---	On when 270Vac>Vin>85Vac.		
34	Auxiliary power supply output	(*3) (*11)	---	11.2~12.5V, 0.5A. 240mVp-p ripple and noise.		
35	Vout programming by external voltage		---	By 0~5V, equal to Vout min ~ Vout max. Refer to Instruction Manual.		
36	Vout programming by external resistor		---	By 1Kohm potentiometer . Refer to Instruction Manual.		
37	OCP programming by external voltage		---	By 0~5V. Refer to Instruction Manual.		
38	Front panel indicators		---	AC OK, DC OK/FAIL. Refer to Instruction Manual.		
39	I²C Interface		---	Optional, PMBus compatible. Refer to Instruction Manual.		
40	Operating temperature		---	-10~+50°C: 100% load. +50°C to +60°C Derate 2%/°C of load +60°C to +70°C Derate 2.5%/°C of load		
41	Storage temperature		---	-30~85°C		
42	Operating humidity		---	10~90% RH, no condensation.		
43	Storage humidity		---	10~95% RH, no condensation.		
44	Cooling		---	By internal Fans. Variable speed control by ambient temperature and power level.		
45	Vibration		---	Built to meet IEC60068-2-64 (Basic Transportation)		
46	Shock		---	Built to meet IEC60068-2-27 (Basic Transportation)		
47	Conducted emission		---	Built to meet EN55032 Class B, FCC part 15 Class-B, VCCI Class-B		
48	Radiated emission	(*15)	---	Built to meet EN55032 Class A, FCC part 15 Class-A, VCCI Class-A		
49	Immunity		---	Built to meet IEC61000-4-2 (Level 2,3), -3 (Level 2), -4 (Level 2), -5 (Level 3,4), -6 (Level 2), -8 (Level 4), -11		
50	Applicable safety standards		---	IEC 62368-1 UL62368-1 CSA22.2 No.62368-1 EN62368-1.		
51	Withstand voltage	Input-Output:		3000Vrms, 1min.		
		Input-Ground:		2000Vrms, 1min.		
		Output - Ground:	---	500Vrms 1min.	500Vrms 1min.	2250VDC 1min
52	Isolation resistance		---	More than 100Mohm at 25°C and 70% RH. Output-Ground: 500Vdc		
53	Leakage current	(*12)(*16)	mA	Less Than 0.75/1.5mA at 115/230Vac range		
54	Weight (Typ)		Kg	Max 2.1		
55	Size (W*H*D)		---	107x41x325mm Refer to Outline Drawing.		

Notes:

***1** Refer to Fig. 1
***2** For cases where conformance to various safety standards (UL, EN etc.) is required, to be described as 100-240Vac (50/60Hz).
***3** At 115/230Vac, 25°C ambient temperature.
***4** Not applicable for the noise filter inrush current less than 0.2mS.
***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** Measured with JEITA-RC9131A 1:1 probe with 4x270uF electrolytic capacitors and 1uF film capacitor on the output, 20MHz B.W. When Power Supplies are installed in HFE2500-S1U shelf, measured with 1uF film capacitor on the output terminals of the HFE2500-S1U.
***8** Voltage drop on load wires: HFE2500-12: 0.25V/wire, HFE2500-24: 0.5V/wire, HFE2500-48: 1V/wire.
***9** Accuracy applicable for load current > 50% of rated output current. Derate maximum output power by 5%.
***10** Inverter shut down method. Reset by AC voltage recycle or by On/Off control.
***11** Measured with JEITA-RC9131A 1:1 probe with 470uF electrolytic capacitor and 0.1uF film capacitor on the output, 20MHz B.W. Capacitors are not required when the Power Supply is installed in HFE2500-S1U shelf.
***12** Measured according to UL,EN method at 60Hz, 25°C ambient temperature
***13** Measured from input-off until the output voltage drops under 5% from the nominal voltage.
***14** Open collector signal. Maximum sink current: 10mA, maximum voltage 15V
***15** HFE2500 series considered as professional equipment and not intended for sale to generic public.
***16** Possible to operate at Input frequency 400Hz +/-10%, leakage current would increase to 6mA/12mA at 115/230Vac, Power factor would decrease. However the operation of the power supply is normal. Safety certification is for frequency range 47~63Hz only.

	Model / V/I	HFE2500 -12	HFE2500 -24	HFE2500 -48
	V1 (V)	12	24	48
Vin(AC)	V2 (V)	13.2	29	58
85V	I1 (A)	90	42	21
	I2 (A)	100	50	25
100~132V	I1 (A)	114	52	26
	I2 (A)	125	62.5	31.25
170~180V	I1 (A)	181.8	82.5	41
	I2 (A)	200	100	50
180~265V	I1 (A)	181.8	86	43
	I2 (A)	200	104	52

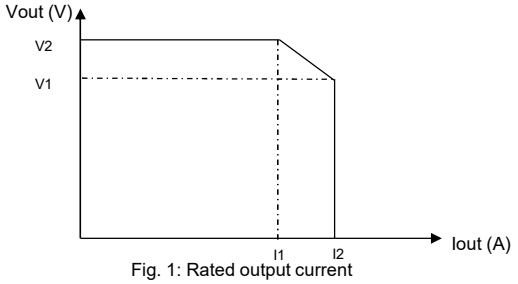

Fig. 1: Rated output current