

HFE1600-S1U SERIES SPECIFICATIONS

			Rev.	
1	Number of power supply modules	(*3) (*7) ---	Maximum 5 units HFE1600 of the same output voltage rating	E
2	Maximum output power	W	Refer to HFE1600 specifications	
3	Maximum output current	---	266A per output (Total 532A)	D
4	Input voltage / frequency range	(*1) ---	85~265Vac continuous, 47~63Hz, Single phase, separate input for each PS module.	
5	Maximum input current (at 100/200Vac)	A	14.2/8.1 for each HFE1600 power supply module	
6	Maximum line regulation	(*4) %	0.25	
7	Max load regulation	(*5) %	0.80	
8	AC input connector	(*6) ---	Separate for each power supply. HFE1600-S1U: IEC inlet (C16); HFE1600-S1U/TB: Terminal Block.	E
9	Output terminals	---	Two bus-bars outputs for each terminal (two sides). Refer to outline drawing.	E
10	Remote sensing	(*2) V	Possible. Refer to Instruction Manual.	
11	Parallel operation	---	Possible. Refer to Instruction Manual.	
12	Series operation	---	Possible. Refer to Instruction Manual.	
13	Remote On/Off control (INHIBIT)	---	Separate control for each PS unit, by electrical signal or dry contact. "OFF": 0~0.6V or short. "ON": 2~15V or open.	
14	Remote On/Off control (ENABLE)	---	Common for all PS units, by electrical signal or dry contact.	
15	DC OK signal	---	Separate signal for each PS unit, open collector signal. Maximum sink current: 10mA, Max 15V Tracking output setting, "LOW" when $V_{out} > 90 \pm 5\%$ of output voltage setting	E
16	AC fail signal	---	Separate signal for each PS unit, open collector signal. Maximum sink current: 10mA, Max 15V "LOW" when input voltage $85V_{ac} < V_{in} < 270V_{ac}$ .	E
17	Over Temperature alarm signal	---	Separate signal for each PS unit, open collector signal. Maximum sink current: 10mA, Max 15V Refer to Instruction Manual	E
18	Output voltage trimming	---	Common for all PS units, by built-in potentiometer. Refer to Instruction Manual.	
19	Output voltage programming	---	Possible, Common for all PS units, by 0~5V signal. Refer to Instruction Manual.	
20	Output voltage programming via I <sup>2</sup> C interface	---	Possible, Common for all PS units. Refer to Instruction Manual.	
21	Auxiliary power supply	---	11.2~12.5VDC. Maximum output current: 0.5A	A
22	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	E
23	Storage temperature	---	-30~85°C	
24	Operating humidity	---	10~90% RH, no condensation.	
25	Storage humidity	---	10~95% RH, no condensation.	
26	Vibration	---	Built to meet IEC60068-2-64 (Basic Transportation)	
27	Shock	---	Built to meet IEC60068-2-27 (Basic Transportation)	D
28	Applicable safety standards	---	IEC 62368-1 UL62368-1 CSA22.2 No.62368-1 EN62368-1.	F
29	Withstand voltage	Input-Output:	3000Vrms, 1min.	E
		Input-Ground:	2000Vrms, 1min	E
		Output-Ground:	12V, 24V, 32V models - 500Vrms, 1min      48V model - 2250Vdc, 1min.	E
30	Isolation resistance	---	More than 100Mohm at 25°C and 70% RH. Output-Ground: 500Vdc	F
31	Weight (Typ) (with accessories)	kg	5.6	B
32	Size (W*H*D)	---	445x43.6x365mm. Refer to Outline Drawing.	

Notes:

- \*1 For cases where conformance to various safety standards (UL, EN etc.) is required, Input voltage to be described as 100-240Vac (50/60Hz).
- \*2 Maximum voltage drop on load wires: HFE1600-12: 0.5V/wire, HFE1600-24: 0.5V/wire, HFE1600-32: 0.75V/wire, HFE1600-48: 1V/wire.
- \*3 Mixing of units with PMBus option ("HFE1600-xx/S") and standard units ("HFE1600-xx") is not allowed.
- \*4 From 85~132Vac or 170~265Vac, constant load.
- \*5 From No-load to Rated load, constant input voltage. Measured at the sensing point in Remote sense.
- \*6 Use UL approved Insulated terminals lugs
- \*7 The output of all HFE1600 modules are connected in parallel in the Rack

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