

1600W 1U Front End Power Supplies

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Industrial



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Test



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The HFE1600 AC-DC industrial power supplies can be operated in a hot-swap redundant configuration, or used to provide up to 7,600W of bulk power. Up to five power supplies can be fitted in a variety of 19" 1U high racks, for configuration as a single or dual output. The HFE supplies have internal ORing MOSFETs and current share for automatic parallel operation. Communication is possible with the power supplies using the optional isolated PMBus™ (I²C) interface or a plug-in LAN module. AC fail, DC good, remote output adjust, remote on/off and a 12V auxiliary output are fitted as standard.

Features	Benefits
• Internal ORing MOSFET and Current Share	• Suitable For N+1 Redundancy
• Up to 7600W in 1U Rack	• Utilizes Less System Space
• Full Array of Signals Available	• Easy Remote Monitoring
• PMBus™ (I ² C) and LAN options	• Industry Standard Communication Interfaces
• Analog Output Adjustment	• Simple External Resistance or Voltage Connection

Model Selector						
Model	Output Voltage (V)	Adjustment Range (V) ⁽¹⁾	Max Current (A) (100≤Vin≤132Vac) ⁽²⁾	Max Power (W) (100≤Vin≤132Vac) ⁽²⁾	Max Current (A) (Vin≥170Vac) ⁽²⁾	Max Power (W) (Vin≥170Vac) ⁽²⁾
HFE1600-12	12	9.6 - 13.2	100	1200	133	1596
HFE1600-24	24	19.2 - 29	50	1200	67	1608
HFE1600-32	32	25.6 - 38.4	37.5	1200	47	1504
HFE1600-48	48	38.4 - 58	25	1200	33	1584

HFE1600-	12	/	S
	Output voltage 12, 24, 32, 48		blank No PMBus™ / I ² C S PMBus™ / I ² C interface

Model Selector (Racks and LAN)		
Model	Description	Maximum Rack Current
HFE1600-S1U	Five slot 19" rack, IEC320-C16 input connectors (5)	266A each side (532A total)
HFE1600-S1U-TB	Five slot 19" rack, terminal block input connectors (5)	266A each side (532A total)
HFE1600/BP	One slot blanking panel, four provided with each rack	-
HFE/C15U	AC Power cord, 2.0m long, one per power supply required	-
HFE1600-D1U	Four slot (two isolated pairs), dual output 19" rack, IEC320 input	266A each side (532A total)
HFE1600-D1U-TB	Four slot (two isolated pairs), dual output 19" rack, terminal block input	266A each side (532A total)
HFE1600-LAN	Plug in LAN module. Takes up one rack slot. For use with /S power supplies only.	-

Specifications						
Model		HFE1600-12		HFE1600-24	HFE1600-32	HFE1600-48
Input						
Input Voltage range (2)	Vac	85 - 265				
Input Frequency	Hz	47 - 63				
Input Current (Max) 115/230Vac	A	12.4 / 8.1				
Inrush Current	A	<35				
Leakage Current	mA	Less than 0.75/1.5mA at 100/230Vac, 60Hz				
Power Factor Correction	-	EN61000-3-2, PF >0.98 at full load				
Harmonic Compliance	-	Meets IEC61000-3-2				
Hold up time	ms	>10ms, 100/230Vac input, 80% loading				
Efficiency (4)	%	87 / 90	88 / 90	88 / 90	89 / 92	
Conducted & Radiated EMI	-	EN55022 & FCC part 15; Conducted class B, Radiated class A				
Line Dip	-	Complies with SEMI F47 (200Vac line only)				
Immunity	-	See immunity section				
Safety Certifications and Markings	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark and UKCA Mark				

Immunity					
Test	Standard	Test Level	Criteria	Notes	
ESD	EN61000-4-2	2,3	B	-	
Radiated Susceptibility	EN61000-4-3	2	A	-	
Electrical Fast Transient Burst	EN61000-4-4	2	B	-	
Surge	EN61000-4-5	3,4	B	-	
Conducted Susceptibility	EN61000-4-6	2	A	-	
Magnetic Fields	EN61000-4-8	4	A	-	
Voltage Dips and Input Interruptions	EN61000-4-11	>95% for 0.5 cycles	B	-	
		30% for 25/30 cycles	C	-	
		>95% for 250/300 cycles	C	-	

Specifications					
Model		HFE1600-12	HFE1600-24	HFE1600-32	HFE1600-48
Output					
Line Regulation	mV	30	60	80	120
Load Regulation	mV	60	120	160	240
External Load Capacitance	uF/A	1000			
Ripple & Noise (1)	mV	240	240	320	480
Temperature Coefficient	%/°C	<0.02			
Minimum Load	-	No minimum load required			
Overcurrent Protection	%	85V ≤ Vin < 132Vac: Minimum 105% of rated output current 170V ≤ Vin < 265Vac: 105~120% of rated output current.			
Overvoltage Protection (1)	%	110% (Tracking). Cycle AC to reset or utilize Remote On/Off			
Overtemperature Protection (1)	-	Shutdown with automatic reset. Warning signal provided.			
Remote Sense Compensation	V/wire	0.25	0.5	0.75	1.0
Remote On/Off	-	Unit ON: 0-0.6V or short, OFF: 2-15V or open circuit			
Remote Adjust	-	By either external 0-5V signal or 1k ohm potentiometer			
AC Fail Signal	-	Open Collector, ON when AC is within 85-270Vac			
DC Good Signal	-	Open Collector, ON when output is above 85 to 95% of setpoint (tracking)			
Auxiliary Output	-	11.2 - 12.5V, 0.5A, 240mV ripple and noise			
Communication	-	Optional isolated PMBus™ (I²C) interface (/S suffix) or plug-in LAN module. See model selectors			
Indicators	-	DC OK - Green- >90% ±5% of set output voltage; AC OK - Green - 85 to 270Vac ; Green / Red LED			
Parallel Operation (1)	-	Yes, single wire current share, up to 90% accuracy (load dependant), up to 10 units			

Specifications					
Model		HFE1600-12	HFE1600-24	HFE1600-32	HFE1600-48
Environmental					
Operating Temperature	°C	-10 to +50: 100% load; +50 to +60 derate: 2%/°C of load; +60 to +70 derate: 2.5%/°C of load. For models with reverse air contact factory.			
Storage Temperature	°C	-30 to +85			
Humidity (non condensing)	%RH	Operating: 10 - 90, Storage: 10 - 95			
Cooling	-	Internal variable speed fans. Airflow enters from the front. Contact factory for reverse airflow option.			
Altitude	m	3000 max. Derate output current 2%/100m above 2000m.			
Withstand Voltage	-	I/P to O/P 3kVac, I/P to GND 2kVac. O/P to GND: HFE1600-12, -24V, -32V 500Vac, HFE1600-48 2250Vdc 1 min, (POE)			
Isolation Resistance	MΩ	>100 at 25°C, 70%RH & Output to Ground 500Vdc			
Vibration (Non-operating)	-	Meets IEC60068-2-64 (Basic Transportation)			
Shock (Non-operating)	-	Meets IEC60068-2-27 (Basic Transportation)			
Other					
Weight (Typ)	g	Power Supply: 1550, Rack: 4800			
Size (LxWxH)	mm	Power Supply: 300 x 85 x 41; Rack: 365 x 445 x 43.6			
Size (LxWxH)	Inches	Power Supply: 11.8 x 3.35 x 1.61; Rack: 14.4 x 17.5 x 1.72			
PMBus™ / I²C Interface (1)	-	Isolated from output, Add suffix /S, PMBus™ compatible			
MTBF - Telcordia	Hours	210,143			
Warranty	Years	Three			

Notes

- (1) See installation manual for detailed specifications and test methods
- (2) Derate output power linearly 1%/V from 100Vac to 85Vac input
- (3) Reverse air - contact factory
- (4) At 75% load, 115 / 230Vac input

FRONT VIEW

21.4 85.0 ± 0.5 42.2 20.4 40.3 ± 0.3

2 ± 0.2

SEE NOTE 2

POWER SUPPLY LOCKING

REAR VIEW

12.1 43.0

IN/OUT CONNECTOR SEE NOTE 1

IN/OUT CONNECTOR REAR VIEW

43.0

320.4 ± 1.0 311.0 ± 1.0 300.0 ± 0.5

9.4

43.0 ± 0.5 252.0 ± 0.5

MOUNTING HOLES M4 MARKED "A" 2 HOLES ON EACH SIDE.

SEE NOTE 4

EXTRACTION HANDLE SEE NOTE 7

HOLES TO FIX A KEY FOR DIFFERENT OUTPUT MODELS SEE NOTE 6

AIR FLOW DIRECTION

POWER SUPPLY RELEASE KNOB SEE NOTE 7

NOTES

1. CONNECTOR TYPE: PCIM34W13M400A1/A, POSITRONIC.
2. LED INDICATORS, REFER TO INSTRUCTION MANUAL.
3. MOUNTING SCREWS MUST NOT PENETRATE MORE THAN 7mm INTO THE UNIT.
4. LABEL WITH MODEL NAME, INPUT AND OUTPUT RATING, SAFETY APPROVAL SYMBOLS AND PLACE FOR DATA CODE AND EU REPRESENTATIVE ADDRESS LABEL.
5. ALLOW MINIMUM 50 mm OF UNRESTRICTED AIR SPACE AT THE REAR OF UNIT. DO NOT OBSTRUCT AIR FLOW TO THE UNIT FRONT PANEL.
6. REFER TO INSTRUCTION MANUAL FOR SETTING DETAILS.
7. TO EXTRACT THE POWER SUPPLY, ELEVATE AND HOLD THE RELEASE KNOB AND PULL THE EXTRACTION HANDLE.

TOLERANCES/±	
1-16mm	0.1
16.1-63mm	0.2
63.1-250mm	0.3
250.1-1000mm	0.5
ANGLE	±0.3°

PIN No	FUNCTION	PIN No	FUNCTION
A1 ~ A5	-V OUT	B12	INHIBIT
A6 ~ A10	+V OUT	B13	SCL (PMBus)
B1	SIGNAL RETURN	B14	A1 (PMBus)
B2	PS EXIST	B15	DC OK
B3	AUX OUT (+12V)	B16	A0 (PMBus)
B4	-SENSE	B17	SDA (PMBus)
B5	A2 (PMBus)	B18	TEMP ALARM
B6	CURRENT SHARE	B19	V REFERENCE OUT
B7	ENABLE	B20	SMB ALERT (PMBus)
B8	VOLTAGE PROGRAMMING	B21	AC FAIL
B9	+SENSE	C1	CHASSIS GROUND
B10	A3 (PMBUS)	C2	AC NEUTRAL
B11	NC	C3	AC LINE

NOTES:

1. MOUNTING HOLES FOR RACK 19". USE M6x12 SCREWS TO FIX THE UNIT TO A RACK.
2. USE NUT, PLAT WASHER AND SPRING WASHER FOR LOAD WIRES. TO FIX, USE LUG FOR STUD M6 FOR LOAD WIRES. RECOMMENDED TORQUE: 42-56 Kgf.cm.
3. TO FIX THE MOUNTING BRACKET TO THE CHASSIS USE M5x10 SEMS SCREWS. RECOMMENDED TIGHTENING TORQUE 27-31 Kgf.cm. SCREWS MUST NOT PENETRATE THE CHASSIS MORE THAN 6.0 mm.
4. REFER TO INSTRUCTION MANUAL FOR SETTING DETAILS.
5. MODEL NAME, VOLTAGE AND CURRENT RATING AND SAFETY APPROVALS SYMBOLS WILL BE SHOWN HERE ACCORDING TO THE SPECIFICATION.
6. THE HFE-S10 RACK IS SHOWN WITH 5 HFE1600 UNITS INSTALLED.
7. EU REPRESENTATIVE ADDRESS LABEL.
8. IEC 60417-6042 AND IEC 60417-6172.
9. SAFETY SYMBOLS LABELS.

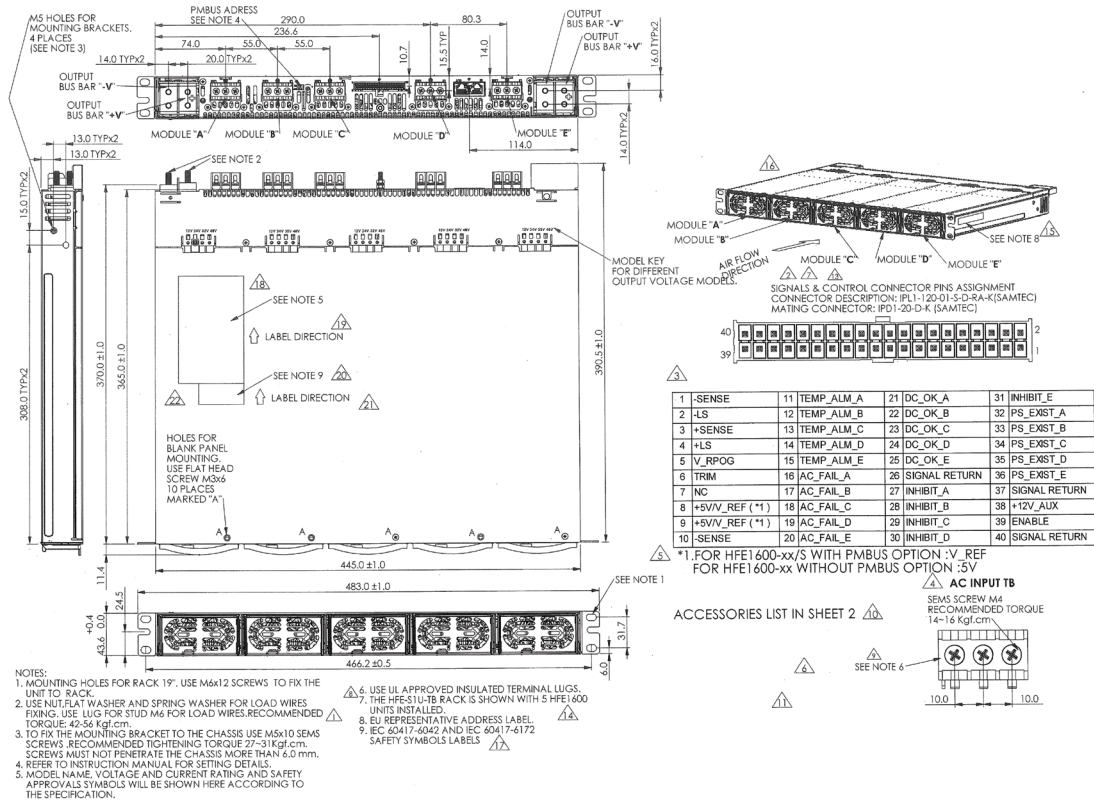
MODEL KEY FOR DIFFERENT OUTPUT VOLTAGE MODELS.

SIGNALS & CONTROL CONNECTOR PINS ASSIGNMENT
 CONNECTOR DESCRIPTION: IP1-120-01 S-D RA-K (SAMTEC)
 MATING CONNECTOR: IPD1-20-D-K (SAMTEC)

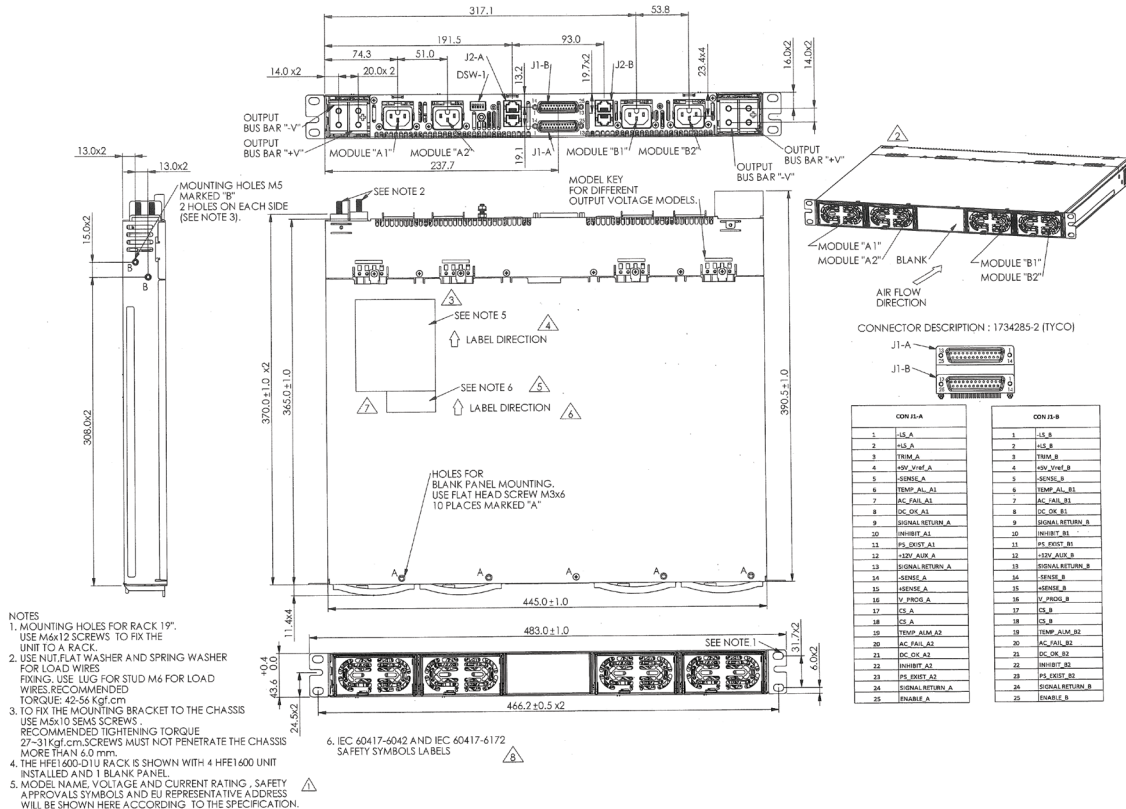
1 -SENSE	11 TEMP_ALM_A	21 DC_OK_A	31 INHIBIT_E
2 -LS	12 TEMP_ALM_B	22 DC_OK_B	32 PS_EXIST_A
3 +SENSE	13 TEMP_ALM_C	23 DC_OK_C	33 PS_EXIST_B
4 +LS	14 TEMP_ALM_D	24 DC_OK_D	34 PS_EXIST_C
5 V_RPOG	15 TEMP_ALM_E	25 DC_OK_E	35 PS_EXIST_D
6 TRIM	16 AC_FAIL_A	26 SIGNAL RETURN	36 PS_EXIST_E
7 NC	17 AC_FAIL_B	27 INHIBIT_A	37 SIGNAL RETURN
8 +5V_REF (*1)	18 AC_FAIL_C	28 INHIBIT_B	38 +12V_AUX
9 +5V_REF (*1)	19 AC_FAIL_D	29 INHIBIT_C	39 ENABLE
10 -SENSE	20 AC_FAIL_E	30 INHIBIT_D	40 SIGNAL RETURN

ACCESSORIES LIST IN SHEET 2

Outline Drawing HFE1600-S1U-TB



Outline Drawing HFE1600-D1U



AC INPUT TB

1. MOUNTING HOLES FOR RACK 19".
USE M6X12 SCREWS TO FIX THE UNIT TO A RACK.

2. USE NUT FLAT WASHER AND SPRING WASHER FOR LOAD WIRES.
FIXING, USE LUG FOR STUD M6 FOR LOAD WIRES RECOMMENDED TORQUE: 42-56 kgf.cm

3. TO FIX THE MOUNTING BRACKET TO THE CHASSIS
USE M4X10 SCREWS
RECOMMENDED TIGHTENING TORQUE: 27-31 kgf.cm. SCREWS MUST NOT PENETRATE THE CHASSIS MORE THAN 6.0 mm.

4. THE HFE1600-DU-18 RACK IS SHOWN WITH 4 HFE1600 UNIT INSTALLED AND 1 BLANK PANEL.

5. MODEL NAME, VOLTAGE AND CURRENT RATING, SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE ADDRESS WILL BE SHOWN HERE. CORRESPONDING TO THE SPECIFICATION.

SEE NOTE 6

13.0x2

13.0x2

13.0x2

308.0x2

370.0±1.0x2

365.0±1.0

11.4x4

43.5±0.4

4.5x2

483.0±1.0

466.2±0.5x2

317.3

74.3

51.0

191.5

93.0

54.0

15.8x4

16.0x2

14.0x2

20.0x2

14.0x2

DSW-1

J2-A

J2-B

J1-B

J1-A

J1-A

J1-B

MODULE "A1"

MODULE "A2"

MODULE "B1"

MODULE "B2"

MODEL KEY FOR DIFFERENT OUTPUT VOLTAGE MODELS.

OUTPUT BUS BAR "+V"

OUTPUT BUS BAR "-V"

OUTPUT BUS BAR "+V"

OUTPUT BUS BAR "-V"

SEE NOTE 2.

SEE NOTE 3.

SEE NOTE 4.

SEE NOTE 5.

SEE NOTE 6.

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SEE NOTE 320.

SEE NOTE 321.

SEE NOTE 322.

SEE NOTE 323.</

FRONT VIEW

Dimensions: 320.4 ±1.0, 311.0 ±1.0, 300.0 ±0.5, 43.0 ±0.5, 252.0 ±0.5, 22.8 ±0.5, 9.4

Labels: MOUNTING HOLES M4 MARKED "A" 2 HOLES ON EACH SIDE.

REAR VIEW

Dimensions: 85.0 ±0.5, 40.8 ±0.3, 2.2 ±0.2

Labels: SEE NOTE 2, MODULE LOCKING

IN/OUT CONNECTOR REAR VIEW

Dimensions: 43.0, 12.1

Label: IN/OUT CONNECTOR SEE NOTE 1

ISOMETRIC VIEW

Labels: SEE NOTE 4, SEE NOTE 7, EXTRACTION HANDLE SEE NOTE 6, POWER SUPPLY RELEASE KNOB SEE NOTE 6

NOTES

1. CONNECTOR TYPE: PCIM34W13M400A1/AA, POSTTRONIC. FEMALE CONNECTOR TYPE: PCIM34W13F400A1/AA.
2. REFER TO INSTRUCTION MANUAL.
3. MOUNTING SCREWS MUST NOT PENETRATE MORE THAN 7mm INTO THE UNIT.
4. MODEL NAME, INPUT RATING AND SAFETY APPROVAL SYMBOLS ARE DESCRIBED ON TOP SURFACE LABEL.
5. ALLOW MINIMUM 50 mm OF UNRESTRICTED AIR SPACE AT THE REAR OF UNIT. DO NOT OBSTRUCT AIR FLOW TO THE UNIT FRONT PANEL.
6. TO EXTRACT THE MODULE, ELEVATE AND HOLD THE RELEASE KNOB AND PULL THE EXTRACTION HANDLE.
7. EU REPRESENTATIVE ADDRESS LABEL.

TOLERANCES/±

Ls16.0mm	0.1
16.0<Ls63.0mm	0.2
63.0<Ls250.0mm	0.3
250.0<Ls1000.0mm	0.5
1000<L	0.8
ANGLE F	±0.5°

PIN No	FUNCTION	PIN No	FUNCTION
A1 ~ A5	NC	B12	NC
A6 ~ A10	NC	B13	SCL (SERIAL CLOCK)
B1	SIGNAL RETURN	B14	NC
B2	MODULE EXIST	B15	NC
B3	+12V_AUX_IN	B16	NC
B4	NC	B17	SDA (SERIAL DATA)
B5	NC	B18	NC
B6	NC	B19	NC
B7	NC	B20	SMB_ALERT
B8	NC	B21	NC
B9	NC	C1	NC
B10	NC	C2	NC
B11	NC	C3	NC



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