

HK800A-C1 800 Watts 12 V

Distributed Power System

Distributed Power Bulk Front-End Total Output Power: 800 Watts +12 Vdc main Output

+12 Vdc Stand-by Output

Wide Range Input voltage: 90 - 264 Vac





Special Features

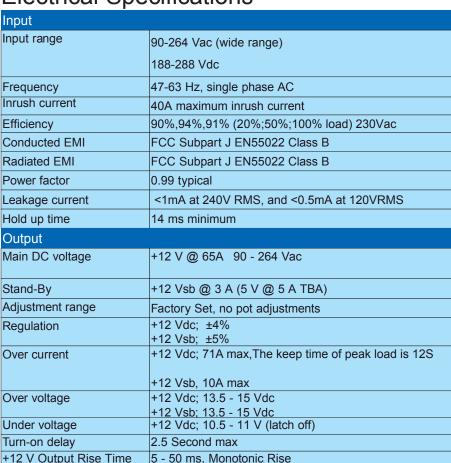
- Active power factor correction
- EN61000-3-2 harmonic compliance
- Active AC inrush control
- 1U X 3U form factor
- 24.1 W / in³
- +12 Vdc output
- 12 Vdc Stand-By (5 V standby - consult factory)
- No minimum load required
- Hot plug operation
- N + 1 redundant
- · Internal OR'ing fets
- Active current sharing (10 - 100% load)
- Built-in cooling fans (40 mm x 28 mm)
- PM Bus compliant
- EERPOM for FRU data
- Red/Green bi-color LED status
- Internal fan speed control
- INTEL, SSI Std. logic timing
- INTEL, SSI Std. FRU data format
- Three years warranty

Safety

UL/cUL 60950 (UL Recognized) GS Geprufte Sicherheit EN60950 **CE Mark** China CCC

CB Certificate & Report, IEC60950 IEC60950-1 (International)

Electrical Specifications



Ordering Information							
Output	Nominal Output Voltage Set Point		Total Regulation	Minimum Current	Maximum Current	Output Ripple P/P	Over Current
HK800A-C1	12.0 Vdc 12 Vsb	±0.2% ±1%	±4% ±5%	0A 0A	65A 3A	120 mV 120 mV	150% of nominal 5-10A

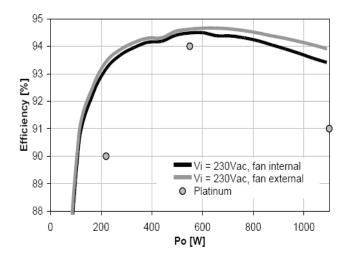
^{*}Over current latches off if overcurrent lasts over 2 second, otherwise it is auto recovery.

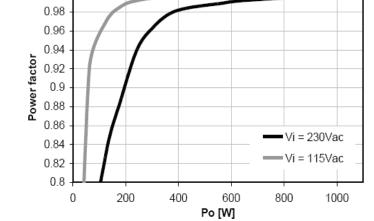


Logic Control			
PS_ON	When this signal is not pulled low by the system, or left open, all the outputs (except for 12Vsb) shall be turned off		
POK	Active TTL HIGH when output is within regulation limits.		
PS_KILL	If PSkill signal is high or open state, the power supply shall locked and can not turn on.		
SMB_ALART	Complies with SMBus standard		

Environmental Specifications

Operating temperature	0 °C to 55 °C
Storage temperature	-40 °C to +70 °C Altitude, operating 10,000 ft
Electromagnetic susceptibility / Input transients	-EN61000-3-2, -3-3 -EN61000-4-2, 4.3, 4-4, -4-5, 4-11 Level -EN55024:1998
RoHS & lead-free compliant (no tantalum caps).	RoHS6
Humidity	5 to 95% RH, non-condensing
Shock and vibration	Operating :Half-sine 5 G;None operating: Half-sine 140 G
MTBF (Demonstrated)	250 K Hrs at full load, 55 °C





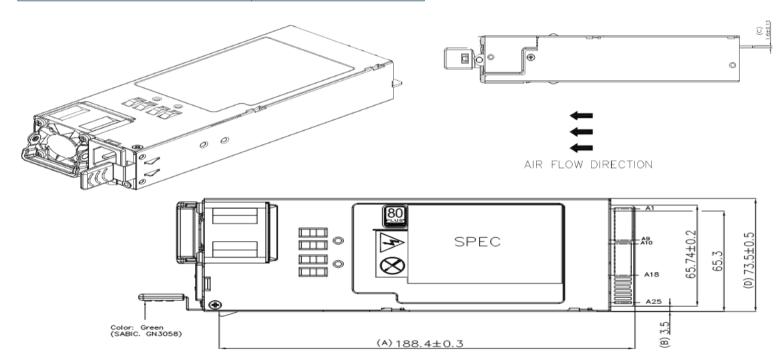
Efficiency vs. load current(ratio metric loading)

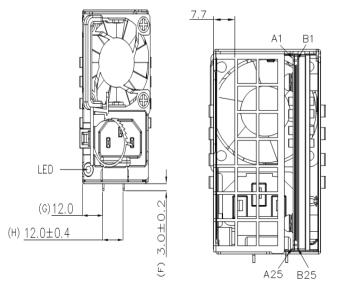
Power factor vs. load current

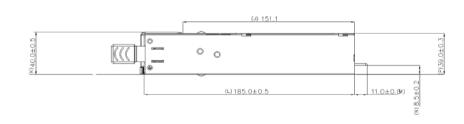


Mechanical Drawing

Condition	LED Status
PDB fault/ protection	Green blinking at 2second high and 500ms low
Normal work	Green Color
Module fault/protection in operating mode	Amber continuously
Warning	Amber blinking at 1Hz
Communication failure between primary side and secondary side	Amber blinking at 0.5Hz.
Power cord unplugged/AC loss	Green blinking at 0.5Hz







DIMENSIONAL	TOLERANC	ES 1	HOLES : ±0.05	ANGLES : ±0.5°
()	()	()		()
<30 :±0.25	DECIMALS	UP~100 :±0.2	250~300:±0.4	UP~600 :±1.5
>30~100 :±0.35	X :±0.3	100~150:±0.25	300~350:±0.45	600~900 :±2.4
>100~300 :±0.5	X.X :±0.2	150~200:±0.3	350~400:±0.5	900~OVER:±3.1
ABOVE 300:±0.6	$X.XX:\pm0.1$	200~250:±0.35		



D/P PIN ASSIGNMEN

PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1	GND	B1	GND
A2	GND	B2	GND
A3	GND	В3	GND
A4	GND	B4	GND
A5	GND	B5	GND
A6	GND	B6	GND
A7	GND	B7	GND
A8	GND	B8	GND
A9	GND	B9	GND
A10	+12V	B10	+12V
A11	+12V	B11	+12V
A12	+12V	B12	+12V
A13	+12V	B13	+12V
A14	+12V	B14	+12V
A15	+12V	B15	+12V
A16	+12V	B16	+12V
A17	+12V	B17	+12V
A18	+12V	B18	+12V
A19	SDA	B19	A0
A20	SCL	B20	A1
A21	PSON	B21	12VSB
A22	SMB-ALERT	B22	CR_1
A23	RETRUN_S	B23	12LS
A24	+12VRS	B24	PSKill
A25	PWOK	B25	NC NC

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Server Power

USB Charger

Car Charger

Power Strip

LED Lighting
Home Appliance

Notebook Adapter