









1200 W AC-DC Power Supplies

The ABC1200 / ABE1200 Series of AC-DC power supplies provides up to 1200 W of regulated output power through wide input voltage range 85 – 305 VAC in a single output of 24 VDC or 48 VDC.

The ABC1200 / ABE1200 Series is available in three compact 1U height compatible packages offering 12 and 5 VSB standby outputs and a full set of protection features.

The ABC1200 / ABE1200 Series supports digital power management over the Power Management Bus communications protocol. Multiple units may be connected in parallel for redundancy and / or higher power, enabled with the internal OR-ing and current sharing functions.

The ABC1200 / ABE1200 Series complies with the latest international safety standards and displays the CE-Mark for the European Low Voltage Directive (LVD).

Key Features & Benefits

- Universal input voltage range (85 305 VAC)
- Input inrush current limiting
- 1200 W rated power
- High efficiency up to 94%
- 24 VDC / 48 VDC output voltage available
- Active PFC, EN61000-3-2 compliant (Class C, >25% load)
- Low earth / touch leakage current
- Fan speed control function
- 800 LFM airflow for ABC1200 models
- Over temperature, OV, OC and SC protections
- +12 V, 0.5 A; +5 V, 1 A Stand by outputs
- Built-in current sharing and OR-ing for parallel operation and N+1 redundancy
- Remote On / Off signal
- Power good and remote sense signals
- Power Management Bus communication protocol supported
- ITE safety approval to IEC 60950-1
- LED lighting approval to UL 8750

Applications

- Video Wall Display, Entertainment Lighting
- LED Lighting Engine
- Industrial Control Systems
- Industrial Laser Applications



1. MODEL SELECTION

MODEL NUMBER	PACKAGE & COOLING	INPUT VOLTAGE RANGE [VAC]	NOM. OUTPUT VOLTAGE [VDC]	MAX. OUTPUT POWER [W]	MAX. OUTPUT CURRENT [A]	DIMENSIONS
ABC1200-1T24-UCF	U-chassis, external air flow	85 - 305	24	1200	50	101.6 x 234.0 x 41.0 mm 4.00 x 9.21 x 1.61 in
ABC1200-1T24-PCF	Protective cover, external air flow	85 - 305	24	1200	50	101.6 x 234.7 x 41.0 mm 4.00 x 9.24 x 1.61 in
ABE1200-1T24	Enclosed, front mounted fan	85 - 305	24	1200	50	101.6 x 264.1 x 41.0 mm 4.00 x 10.4 x 1.61 in
ABE1200-1T48	Enclosed, front mounted fan	85 - 305	48	1200	25	101.6 x 264.1 x 41.0 mm 4.00 x 10.4 x 1.61 in

2. INPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION		MIN	NOM	MAX	UNIT
AC Input Voltage				100-277	305	V _{RMS}
DC Input Voltage	Built in fuses safety certified up to 2 above that limit up to 300 V _{DC} , does	50 V _{DC} . Operating the 1200 Series require an external fuse protection *	120	-	300	V_{DC}
Input Frequency	400 Hz (max 440 Hz) operation over	85 - 137 V _{AC} input range	47	50/60	63	Hz
Input Current	At 180 V_{AC} , maximum load, 50 / 60 Hz At 85 V_{AC} , 1000 W load, 50 / 60 Hz 163 V_{DC} , maximum load 120 V_{DC} , 1000 W	Hz	-	-	8.0 14.5 9.0 10.0	A _{RMS}
Inrush Current	At power-on asserted Cold start, 25 °C ambient, full load Any point of the AC input sine	230 Vac 277 Vac	-	-	30 50	А
Fusing	High breaking, 16 / 20 A, 277 V _{AC} (29	50 V _{DC}) on each AC line.	-	-	16/20	Α
Efficiency	At 120 V _{AC}	20% rated load 50% rated load 100% rated load	88 92 92	-	- - -	%
Lindicitory	At 230 V _{AC}	20% rated load 50% rated load 100% rated load	90 93 94	- - -	- - -	,,
Input Power Consumption	At power on, no load, 100-277 V _{AC} r At power on, no load, 100-277 V _{AC} r Stand by, no load, nominal 100-277	range (ABC1200-1T24-UCF / -PCF)	- - -	7.0 6 4.0	- - -	W
Power Factor	Any nominal input line voltage, 50/60	0 Hz, from 50 to 100% maximum load	0.95	-	-	-
THDi	From 50 to 100% rated load, 100-27	77 V _{AC} ,50/60 Hz.	-	-	20	%
Harmonic Current Fluctuations and Flicker	Complies with EN 61000-3-3 at nom	C at 230 V _{AC} , 50/60 Hz, >300 W load.				
Earth Leakage Current	Normal conditions 115 V _{RMS} , 60 Hz 230 V _{RMS} , 50 Hz 264 V _{RMS} , 60 Hz (worst case)		- - -	130 240 -	- - 400	μΑ
Touch Leakage Current	264 V _{RMS} , 60 Hz Normal Condition (NC) Single Fault Condition (SFC)		-	-	100 500	μΑ

 $^{^{\}star}$ Suggested fuse SIBA 5012434.16 and fuse holder SIBA 5105805.1



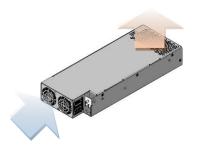
3. OUTPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
V1 Output Voltages	±0.5% set point accuracy RS+ closed on +V1, RS- closed on V1 RTN, at 6% load.	-	24 48	-	V
V1 Output Power Rating	85 – 137 V _{AC} ABC1200-1T24-UCF / -PCF (800 LFM); (120-163 V _{DC}) ABE1200-1T24 / ABE1200-1T48			1000	W
Tr Galpart of or realing	180 – 305 V _{AC} ABC1200-1T24-UCF / -PCF (800 LFM); (163-300 V _{DC}) ABE1200-1T24 / ABE1200-1T48			1200	••
V1 Output Current	85 – 137 V _{AC} ABC1200-1T24-UCF / -PCF; ABE1200-1T24 (120-163 V _{DC}) ABE1200-1T48 ABC1200-1T24-UCF / -PCF; ABE1200-1T24 (163-300 V _{DC}) ABE1200-1T48			41.7 20.8 50 20	А
V1 Voltage Adjustment Range	Manually by push up and down buttons	-	±5	-	%V1
V1 Line Regulation	V _{AC} : 85 - 305 V _{RMS}	-	-	±0.1	%V1
V1 Load-Line-Cross Regulation	V _{AC} : 85 - 305 V _{RMS} ; I1: 0 - 100%	-	-	±2	%V1
V1 Ripple and Noise	Rated load, Peak-to-peak, 20 MHz BW. (100 nF ceramic, 10 µF tantalum at load)	-	-	1	%V1
Transient Response: V1, 12VsB, 5VsB Voltage Deviation	25% load changes at 1 A/μs 24 V at 1000 μF load / louτ > 2.5 A 48 V at 560 μF load / louτ > 1.25 A 12 Vs _B , 5 Vs _B at 0-2200 μF load	-	-	±5	%V1 %V _{SB}
V1 Start-up Rise Time	85 <v<sub>IN<305, any load conditions.</v<sub>	10	-	150	ms
	At nominal V _{IN} , full load SEMI F47-0706 compliant at ≥208 V _{AC}	10	-	-	
V1 Hold-up Time	50% sag (104 V) 30% sag (145 V) 20% sag (166 V)	200 500 1000	-	-	ms
V1 Current Sharing Accuracy	Parallel operation up to four units. Two units in parallel at I1 rated load. I-Share signals connected together. RS+, RS- signals connected together and to the load. Max load at start up 1200 W, operating 2000 W	40	-	60	%I1
V1 Remote Sense	RS+ and RS- power path voltage loss compensation	-	-	1.5	%V1
Start-up Delay	V1 in regulation after de-asserting PS_Inhibit V1 in regulation after AC is applied (worst case: 85 V_{AC}) 5V_{SB} in regulation after AC is applied (worst case: 85 V_{AC})	- - -	-	1700 2200 500	ms
Turn-on Overshoot	(WOTST CASE. 00 VAC)	-	-	10	%V1
Minimum Load	V1, 12VsB, 5VsB	- 0	-	10	%V _{SB}
Maximum Load Capacitance	V1: 24 V _{DC}	-	-	16000	μF
V1 Over Current Protection	V1: 48 V _{DC} V1: 24 V _{DC} V1: 48 V _{DC}	-	-	8000 75 37.5	A
12 V _{SB} Output Voltage	V _{SB} output voltage is referred to the same V1 output voltage return	-	12	- -	V
12 V _{SB} Output Current	All models up to 70 °C	-	-	0.5	Α
12 V _{SB} Ripple & Noise	Peak-to-peak			120	mV
12 V _{SB} Line Cross Regulation	V _{AC} : 85 – 305 V _{RMS} ; I _{SB} : 0 – 100%	-	-	±5	%V _{SB}
5 V _{SB} Output Voltage	V _{SB} output voltage is referred to the same V1 output voltage return	-	5	-	٧
5 V _{SB} Output Current	All models up to 70 °C	-	-	1	Α
5 V _{SB} Ripple & Noise	Peak-to-peak			50	mV
5 V _{SB} Load, line cross Regulation	V _{AC} : 85 – 305 V _{RMS} ; I _{SB} : 0 – 100%	-	-	±5	%V _{SB}

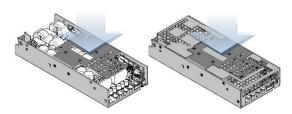


3.1 OUTPUT POWER DE-RATING CURVES

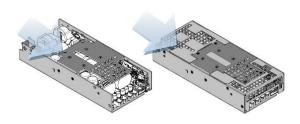
Front Fan (Models ABE1200-1T24 / ABE1200-1T48) Any orientation, V1 nominal

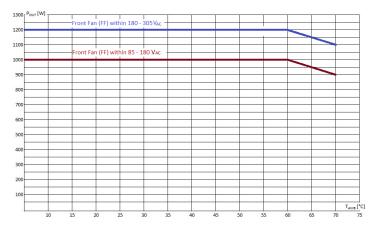


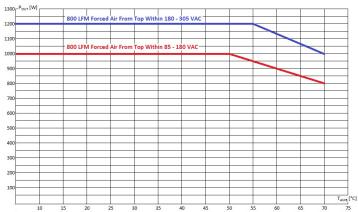
U-Chassis and Perforated Cover Forced Air Cooling (Models ABC1200-1T24-UCF / -PCF) Air flow from top, V1 nominal

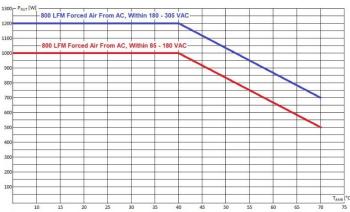


U-Chassis and Perforated Cover Forced Air Cooling (Models ABC1200-1T24-UCF / -PCF) Air flow from AC side, V1 nominal











4. POWER MANAGEMENT BUS

The ABC1200 / ABE1200 Series does support communication according to the Power Management Bus 1.2 protocol via SDA, SCL and #SMBALERT signals as defined in the SMBus Specification version 2.0.

The power supply shall not load the SMBus if it has no input power (SCL & SDA lines should go to High-Z).

The pull-up resistors (2.2 $k\Omega$) for these signals shall be external to the power supply and referenced to an external +3.3 V bus voltage.

The DSP circuits inside the power supply are powered by the standby output.

The Power Management Bus is active whatever input power is applied to the power supply or a parallel redundant power supply in the system, provided that their $12V_{SB}$ are connected in parallel.

Maximum speed of SMBus is 100 kHz.

The ADDR0 and ADDR1 signals, are inputs to the power supply that control the Power Management Bus address assigned to the power supply.

On the system side, the ADDR0 and ADDR1 signals will either be connected to return through a 1 k Ω pull-down resistor or connected to +3.3 V external bus voltage through a 1 k Ω pull-up resistor.

The address shall be derived from the logic of this pin as indicated on Outline Drawing and Connections section.

The power supply is a slave only on SMBus device.

For a comprehensive description of ABC1200 / ABE1200 Series Power Management Bus management, do refer to the application note, "ABC1200 / ABE1200 Series Power Management Bus Mgt". Examples of 1200 W Series parameters available through communication bus are:

- Input voltage status
- Output voltages +V1 measured value
- Output current on +V1 measured value
- Current sharing status
- Thermal health measured value
- Fan health status
- Power-On / Working hours
- · Product information
- Status information

Failures shall be reported by Power Management Bus for all failure types:

- Fan faul
- Protections failure (OV, OC, OT)
- Voltages out of specification



5. SIGNALING & CONTROL SPECIFICATIONS

Base signals and controls are accessible from signal connector P204.

SIGNAL	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
+PS_Inhibit (Active High)	Input low voltage (I _{IN} = 0 μA) Input high voltage (I _{IN} = 500 μA at 5.5 V) V1 disabled when PS_Inhibit is pulled high V1 enabled when PS_Inhibit is floating or low 5V _{SB} and 12V _{SB} not affected by PS_Inhibit	0 2.5	-	0.8 5.5	V
-PS_Inhibit (Active Low)	Input low voltage (I _{IN} = -800 μÅ at 0 V) Input high voltage (I _{IN} = -200 μA at 2.5 V) (I _{IN} = 700 μA at 5.5 V) V1 disabled when -PS_Inhibit is pulled low V1 enabled when -PS_Inhibit is floating or high 5V _{SB} and 12V _{SB} not affected by -PS_Inhibit	0 2.5	-	0.8 5.5	V
Power_OK * (PS_OK)	Logic level low (<10 mA sinking) Logic level high (200 µA sourcing) Low to high time after V1 in regulation Power down warning time	2.4 150 2	- - - -	0.7 3.45 350 -	V ms
I_Share SDA, SCL, #SMBALERT,	The LSHARE signals shall be daisy chained among power supplies operating in parallel. On a single power supply operating it provides current measurement on V1 output. On multiple power supplies operating in parallel, it provides current measurement on master V1output. These are signals which support Power Management Bus communication protocol as specified in the application				
ADDR0, ADDR1 RSVD RX, RSVD TX	note ABC1200 / ABE1200 Series Power Management Bus Mgt. Mainly intended for internal use, these RX and TX signals - available at the P204 - may be used to access some DSP functions (monitoring, threshold These signals work as an UART Rx/Tx port and can also work as a RS-232 "RS-232 LINE DRIVERS/RECEIVERS" IC	output sigi settings, d	nal connection	ctor tions).	,
5V _{SB} Output *** 12V _{SB} Output ***	Active and in regulation after an 85 <v<sub>AC<305 is applied Not affected by PS_Inhibit. Available on P204, pin#4 Active and in regulation after an 85<v<sub>AC<305 is applied Not affected by PS_Inhibit. Available on P204, pin#16</v<sub></v<sub>	-	-	500	ms ms

^{*} When V1 is On, a P_OK low may indicates V1 under voltage condition. When two 1200 W models operate in parallel, P_OK low in one unit indicates that it is not sharing the expected amount of current (current sharing fault). A 3.3 kΩ internal pull up to a 3.3 V internal reference voltage is used; do not add any other external pull up.

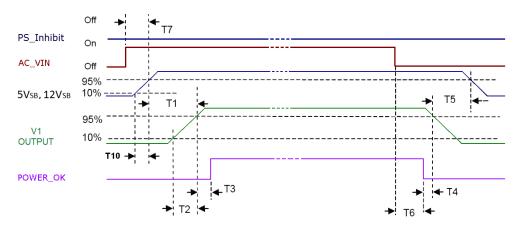


^{**} The 5VSB outputs of two or more 1200 W models operating in parallel, cannot be connected in parallel in turn, since doing so results in power supplies damage.

^{***} The 12VSB outputs of two or more 1200 W models operating in parallel can be connected in parallel in turn, taking into account that the maximum available power will not be higher of a single operating power supply one.

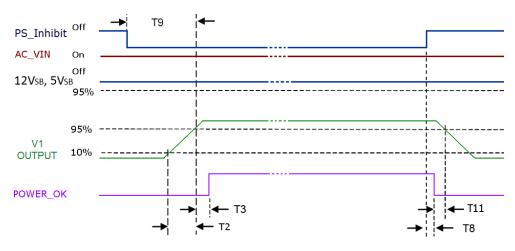
5.1 BASE SIGNALS / CONTROLS TIMING

AC/DC INPUT OFF-TO-ON AND ON-TO-OFF TIMINGS



12V _{SB} /5V _{SB} On to V1 On	250 ms ≤ T1 ≤ 1700 ms
V1 rise time	10 ms ≤ T2 ≤ 150 ms
12V _{SB} /5V _{SB} rise time	3 ms ≤ T10 ≤ 150 ms
V1 On – POWER_OK delay	150 ms ≤ T3 ≤ 350 ms
Power down warning	T4 ≥ 2 ms
V1 Off to 12V _{SB} /5V _{SB} Off	T5 ≥ 0.5 s (V1 load > 25 W)
AC Off to POWER_OK low	T6 ≥ 8 ms
AC_On to 12V _{SB} /5V _{SB} On	T7 ≤ 500 ms

PS_INHIBIT OFF-TO-ON AND ON-TO-OFF TIMINGS



V1 rise time	10 ms ≤ T2 ≤ 150 ms
V1 On – POWER_OK delay	150 ms ≤ T3 ≤ 350 ms
Power down warning	T11≥1 ms
V1 On – POWER_OK delay	150 ms ≤ T3 ≤ 350 ms
PS_Inhibit - POWER_OK low delay	T8 ≤ 3 ms
PS_Inhibit - V1 On delay	T9 ≤ 1700 ms



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6. PROTECTION SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT	
Input Under Voltage	Auto-recovering, hiccup mode.	58	75	82	V_{AC}	
Input Fuse	High breaking, 16 / 20 A, 277 V _{AC} (250 V _{DC}) on each AC lines.	-	-	16/20	Α	
Over Current	At nominal input voltages V1: Hiccup mode, auto-recovering 5V _{SB} : Auto-recovering 12V _{SB} : Hiccup mode, auto-recovering See Output Ratings Table section	- - -	- - -	150 - -	%I1 _{Rated} A A	
Short Circuit	At nominal input voltages V1: Hiccup mode, auto-recovering. 5V _{SB} : Auto-recovering 12V _{SB} : Hiccup mode, auto-recovering.	-	-	-		
Over Voltage	V1, Power shut down, latch off. 12V _{SB} , Hiccup mode, auto-recovering.	116 -	-	145 150	%V _{NOM}	
Over Temperature (ambient)	Hiccup mode, auto-recovering.	70	-	-	°C	
Over Temperature (on secondary side)	Hiccup mode, auto-recovering.	-	-	-	°C	
Fan Fault Protection	Relevant to the ABE1200-1T24 / ABE1200-1T48 models. The DSP monitors the signals (frequency generator) provided by both fans. If one fan fails, the DSP asserts maximum speed the other fan and provides an alarm indication through Power Management Bus. If both fans fail, the DSP provides an alarm indication through LED and through Power Management Bus and after 20 s, does shut down V1. PS INHIBIT or AC/DC input have to be cycled to resume operations, after removed the fault.					
Isolation: Primary-to-Secondary	Reinforced	5660 4000	-	-	V_{DC} V_{AC}	
Isolation: Input-to-Earth	Basic Production tested at 2642 V _{DC}	2642 1865	-	-	V_{DC} V_{AC}	
Isolation: Output-to-Earth	Basic	1500	-	-	V _{AC}	
Equipment Protection Class	Class I					

7. ENVIRONMENTAL SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
Operating Temperature Range	No derating up to 60 °C (ABE1200) and up to 55 °C (ABC1200) See derating curves above 1200 W starts at -40 °C upon warm up delay	-20	-	60	°C
Operating Temperature Range with Derating	See derating curves and conditions in the Output Specifications section	-	-	70	°C
Storage Temperature Transportation Temperature	As per IEC/EN 60721-3-1 Class 1K4 As per IEC/EN 60721-3-2 Class 2K4	-40	-	85	°C
Humidity	RH, Non-condensing Operating. Non-operating	-	-	90 95	% %
Operating Altitude	Power derating above 1800 m	-	-	5000	m
Shock	EN 60068-2-27 Operating: Half sine, 30 g, 18 ms, 3 axes, 6x each (3 pos Non-Operating: Half sine, 50 g, 11 ms, 3 axes, 6x each (3 pos				
Vibration	EN 60068-2-64 Operating: Sine, 10 – 500 Hz, 1 g, 3 axes, 1 oct/min., 60 r Random, 5 – 500 Hz, 0.02 g²/Hz, 1 g _{RMS} , 3 ax Non-Operating: 5 – 500 Hz, 2.46 g _{RMS} (0.0122 g²/Hz), 3 axes,	es, 30 min.	ŭ ,		
MTBF	Full load, 25 °C ambient, 100% duty cycle, Full load, 40 °C ambient, 75% duty cycle Telcordia SR-332 Issue 2	700000 600000	-	-	Hours
Useful Life	Nominal V _{IN} , 80% load, 40 °C ambient (IPC9592)	-	7	-	Years



8. ELECTROMAGNETIC COMPATIBILITY (EMC) - EMISSIONS

PARAMETER	DESCRIPTION / CONDITION	STANDARD	PERFORMANCE CLASS
Conducted	115, 230, 277 V _{RMS} , Maximum load	EN 55032 EN 55011 (ISM) FCC Part 15	В
Radiated		EN 55032 EN 55011 (ISM) FCC Part 15	B*
Line Voltage Fluctuation & Flicker	At 20%, 50% and 100% maximum load Nominal input voltages	EN 61000-3-3	
Harmonic Current Emission	230 VAC input voltage, 50 / 60 Hz 230 VAC 50 / 60 Hz, >300 W load	EN 61000-3-2 EN 61000-3-2	A, D C

^{*} Performance referred to the enclosed package with additional HF chokes on output power and signal cables. Radiated emission relevant to the UCF and PCF package variants, should be assessed at system level.

9. ELECTROMAGNETIC COMPATIBILITY (EMC) – IMMUNITY

PARAMETER	DESCRIPTION /	CONDITION	STANDARD	TEST LEVEL	CRITERIA
		d for Industrial/IMS equipment	EN 55024 EN 61000-6-2		
ESD	15 kV air discharge at any point of the	·	EN 61000-4-2	4	Α
Radiated Field	10 V/m, 20-2700 N	⁄/Hz, 1 KHz, 80% AM.	EN 61000-4-3	3	Α
Electric Fast Transient	±2 kV on AC power	er port for 1 minute	EN 61000-4-4	3	Α
Surge	±2 kV line to line;	± 4 kV line to earth on AC power port	EN 61000-4-5	4	Α
Conducted RF Immunity	10 V _{RMS} , 0,15-80 N	MHz, 1 kHz, 80% AM	EN 61000-4-6	3	Α
Dips and Interruptions	200 – 277 V _{AC} :	Drop-out to 0% for 10 ms Dip to 40% for 5 cycles (100 ms) Dip to 70% for 25 cycles (500 ms) Drop-out to 0% for 5 s	EN61000-4-11 EN61000-4-11 EN61000-4-11 EN61000-4-11		A * A (derate to 900 W) A B
	100 – 127 V _{AC} :	Drop-out to 0% for 10 ms Dip to 40% for 5 cycles (100 ms) Dip to 70% for 25 cycles (500 ms) Drop-out to 0% for 5 s	EN 61000-4-11 EN 61000-4-11 EN 61000-4-11 EN 61000-4-11		A* A (derate to 400 W) A (derate to 700 W) B

^{*} Performance referred to +5VSB, +12VSB and V1 (PS_OK goes to low level after 8 ms as per timing described at page 8

10. SAFETY AGENCIES APPROVALS

CERTIFICATION BODY	SAFETY STANDARDS	CATEGORY
CSA / UL	CSA C22.2 No. 60950-1, UL 60950-1; 2007, 2nd edition +A1 + A2 UL8750, CSA22.2 No. 250.13	Information Technology Equipment LED Lighting
IEC IECEE CB Certification	IEC/EN 60950-1 2nd edition + A1 + A2	Information Technology Equipment
CE	Directive 2014/35/EU: Electrical Safety: Low Voltage electrical equipment (LVD) Directive 2014/30/EU: Electromagnetic Compatibility (EMC)	Information Technology Equipment
	Directive 2011/65/EU: RoHS 2	
	Meets all essential requirements of the standard IEC/EN/UL/CSA 61010-1 2	nd edition



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11. CONNECTIONS AND PIN DESCRIPTION

CONNECTIONS	CONNECTOR	REFERENCE	FUNCTION		
AC Input Connections	P1: AMTEK TB25C-B02P-13-00A-L	1	Line 1		
	M4 GROUND STUD	2	Line 2		
		3	Protection Earth		
DC Input Connections	P200, P201, P202, P203:		24 V Optional	24 / 48 V	
	BRASS M4 THREADED TERMINALS	P200	+V1	+V1	
		P201	+V1	-	
		P202	V1 RTN	V1 RTN	
		P203	V1 RTN	-	
Signal Connector	P204:	1	RMT (-)		
	MOLEX 501876-1640	2	RMT (+)		
		3	I-SHARE		
		4	+5V _{SB}		
		5	PS_INHIBIT		
		6	PS_OK		
		7	SCL		
		8	SDA		
		9	#SMBALERT		
		10	ADDR0		
		11	-PS_INHIBIT		
		12	ADDR1		
		13	RSVD_RX (OUT)		
		14	RSVD_TX (OUT)		
		15	RTN		
		16	+12V _{SB}		
Additional Control Funct	ions	SW600	V1_ADJ (UP)		
			V1_ADJ (DOWN)		
		DL600	Bi-colour LED		
		Off	No AC/DC input po		
		Blinking Green	Input power good, standby active, V1 inhibited		
		Steady Green	V1 Active		
		Steady or Blinking red	Power Supply Fault		

12. MECHANICAL SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION
Weight	1150 g (2.53 lb) – ABC1200-1T24-UCF 1250 g (2.75 lb) – ABC1200-1T24-PCF
Overall Dimensions	1550 g (3.42 lb) – ABE1200-1T24 / ABE1200-1T48 101.6 x 234.0 x 41.0 mm (4.00 x 9.21 x 1.61 in) – ABC1200-1T24-UCF 101.6 x 234.7 x 41.0 mm (4.00 x 9.24 x 1.61 in) – ABC1200-1T24-PCF
	101.6 X 264.1 x 41.0 mm (4.00 x 10.4 x 1.61 in) - ABE1200-1T24 / ABE1200-1T48



12.1 OUTLINE DRAWING & CONNECTIONS - U-CHASSIS FORCED AIR COOLING (ABC1200-1T24-UCF)

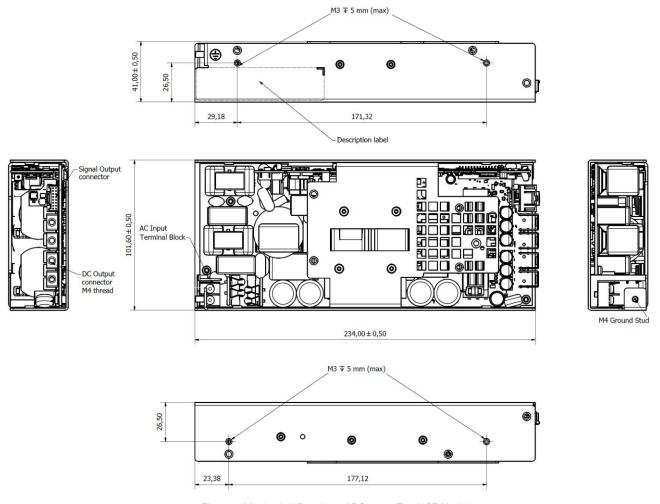


Figure 1. Mechanical Drawing - ABC1200-1T24-UCF Model

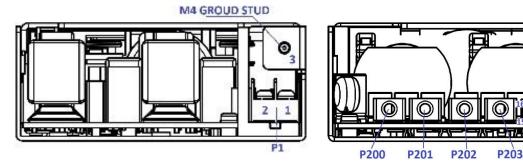


Figure 2. Front View - ABC1200-1T24-UCF Model

Figure 6. Rear View - ABC1200-1T24-UCF Model



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P204

DL600 SW600

SW601

12.2 OUTLINE DRAWING & CONNECTIONS – PERFORATED COVER FORCED AIR COOLING (ABC1200-1T24-PCF)

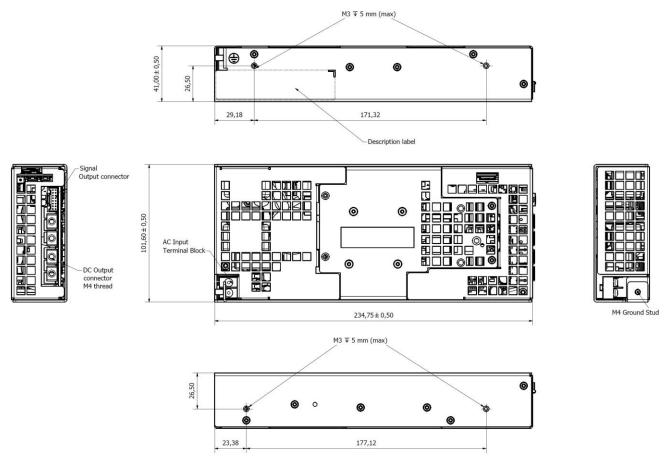


Figure 4. Mechanical Drawing - ABC1200-1T24-PCF Model

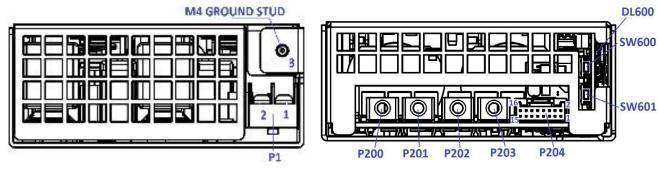


Figure 5. Front View - ABC1200-1T24-PCF Model

Figure 6. Rear View - ABC1200-1T24-PCF Model



12.3 OUTLINE DRAWING & CONNECTIONS - FRONT MOUNTED FAN (ABE1200-1T24 / ABE1200-1T48)

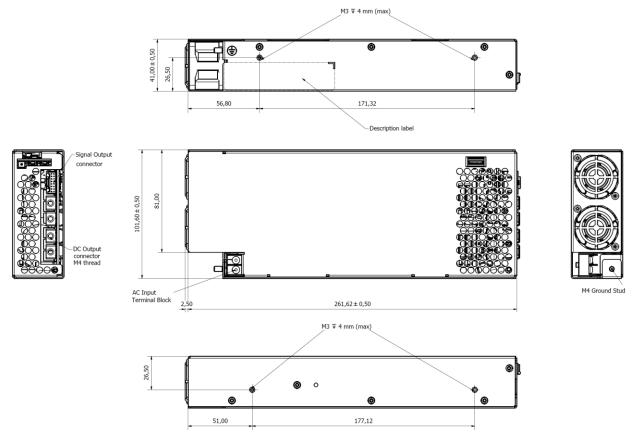


Figure 7. Mechanical Drawing - ABE1200-1T24 / ABE1200-1T48 Models

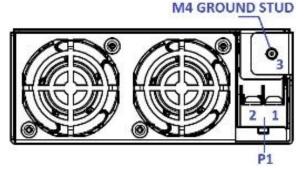


Figure 8. Front View - ABE1200-1T24 / ABE1200-1T48 Models

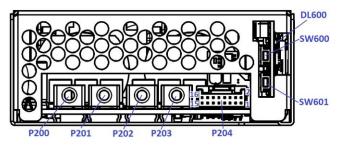


Figure 9. Rear View - ABE1200-1T24 / ABE1200-1T48 Models

For more information on these products consult: tech.support@psbel.com

NUCLEAR AND MEDICAL APPLICATIONS - Products are not designed or intended for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems.

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