MCC750 Series

750 W AC-DC Power Supplies

The MCC750 Series of AC-DC power supplies provides a steady 750 W of regulated DC power through 180-305 VAC and 600 W through 85-137 VAC input voltage ranges in a single output of 24 or 48 VDC. The natural convection cooling operation (without fan), is particularly suitable for environments sensitive to acoustical noise.

The MCC750 Series comes in two U-shaped 1.6” high packages, with and without a protective cover, offering 12 and 5 VSB standby outputs and a full set of protection features.

The MCC750 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 MCC750 Series complies with the latest edition of the IEC/EN 60601-1 safety standards for medical equipment requiring 2x MoPP protection grade and displays the CE-Mark for the European Low Voltage Directive (LVD).

Key Features & Benefits

- Universal input voltage range
  90 – 305 V_{AC}, MoOP; 90 – 264 V_{AC}, MoPP
- Input inrush current limiting
- 750 W rated power (900 W peak for <10 s)
- High efficiency up to 94%
- Single 24 VDC or 48 VDC output voltages available
- Active PFC, EN61000-3-2 compliant (Class C, >25% load)
- Low earth / touch leakage current
- Natural convection cooling
- Over temperature, OV, OC and SC protections
- +12 V / 0.3 A; +5 V / 0.72 A Stand by outputs
- Built-in current sharing and OR-ing for parallel operation and N+1 redundancy
- Power good and remote sense signals
- Remote On / Off signal
- Power Management Bus communication protocol supported
- Medical safety approval to IEC 60601-1 3rd edition, 2x MoPP rated and BF appliances compatible
- IEC 60601-1-2 4th edition EMC compliant
- RoHS 3 compliant (Directive EU 2015/863)

Applications

- X-Ray / CT Scanner
- Dental Equipment
- Laboratory / Analysis Equipment
- Medical Devices / Applications

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1. MODEL SELECTION

MODEL NUMBER	PACKAGE & COOLING	INPUT VOLTAGE RANGE [VAC]	NOM. OUTPUT VOLTAGE [VDC]	MAX. OUTPUT POWER [W]	MAX. OUTPUT CURRENT [A]	DIMENSIONS
MCC750-1T24	U-chassis Natural Convection	85 - 305	24	750	31.2	101.6 x 234.0 x 41.0 mm 4.00 x 9.21 x 1.61 in
MCC750-1T48	U-chassis Natural Convection	85 - 305	48	750	15.6	101.6 x 234.0 x 41.0 mm 4.00 x 9.21 x 1.61 in
MCC750-1T24-PC	U-chassis + Protective Cover Natural Convection	85 - 305	24	750	31.2	101.6 x 234.7 x 41.0 mm 4.00 x 9.24 x 1.61 in
MCC750-1T48-PC	U-chassis + Protective Cover Natural Convection	85 - 305	48	750	15.6	101.6 x 234.7 x 41.0 mm 4.00 x 9.24 x 1.61 in

2. INPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
AC Input Voltage	PS starts at 85 V_{AC} at all load conditions Operating input voltage range MCC750 Series is designed to operate with a square or trapezoidal input voltage wave form (i.e. from UPS)	85	100-277	305	V_{RMS}
DC Input Voltage	Built in fuses safety certified up to 250 V_{DC}. Operating the MCC750 above that limit up to 300 V_{DC}, does require an external fuse protection *	120	-	300	V_{DC}
Input Frequency		47	50/60	63	Hz
Input Current	At 180 V_{AC}, 750 W, 50 / 60 Hz At 85 V_{AC}, 600 W load, 50 / 60 Hz 163 V_{DC}, maximum load 120 V_{DC}, 650 W	-	-	5.0 8.7 5.6 6.0	A_{RMS} A
Inrush Current	At power-on asserted Cold start, 25 °C ambient, full load Any point of the AC input sine 230 V_{AC} 277 V_{AC}	- -	- -	30 50	A
Fusing	High breaking, 16 / 20 A, 277 V_{AC} (250 V_{DC}) on each AC line.	-	-	16 / 20	A
Efficiency	At 120 V_{AC} 20% rated load At 120 V_{AC} 50% rated load At 120 V_{AC} 100% rated load At 230 V_{AC} 20% rated load At 230 V_{AC} 50% rated load At 230 V_{AC} 100% rated load	85 92 92 87 93 94	- - - - - -	- - - - - -	%
Input Power Consumption	At power on, no load, 100 – 277 V_{AC} range Stand by, no load, nominal 100 – 277 V_{AC} range	- -	6.0 3.5	- -	W
Power Factor	Any nominal input line voltage, 50/60 Hz, from 50 to 100% maximum load	0.95	-	-	-
THDi	From 50 to 100% rated load, 100 – 277 V_{AC}, 50/60 Hz.	-	-	20	%
Harmonic Current Fluctuations and Flicker	Complies with EN 61000-3-2 at 230 V_{AC}, 50/60 Hz, Class A, D. Complies with EN 61000-3-2 Class C at 230 V_{AC}, 50/60 Hz, >300 W load. Complies with EN 61000-3-3 at nominal voltages and full load.				
Earth Leakage Current	Normal conditions 115 V_{RMS}, 60 Hz 230 V_{RMS}, 50 Hz 264 V_{RMS}, 60 Hz (worst case)	- - -	170 300 -	- - 450	µA
Touch Leakage Current	264 V_{RMS}, 60 Hz Normal Condition (NC) Single Fault Condition (SFC)	- -	- -	100 500	µA
Patient Leakage Current	264 V_{RMS}, 60 Hz Normal Condition (NC) Single Fault Condition (SFC)	- -	- -	100 500	µA

* Suggested fuse SIBA 5012434.16 and fuse holder SIBA 5105805.1

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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} (120-163 V_{DC})			600	W
	180 – 305 V_{AC} (163-300 V_{DC})			750	
	Peak, <10 s, after P_Ok asserted high			900	
V1 Output Current	85 – 137 V_{AC} (120-163 V_{DC}) V1: 24 V_{DC} V1: 48 V_{DC}			25.0 12.5	A
	180 – 305 V_{AC} (163-300 V_{DC}) V1: 24 V_{DC} V1: 48 V_{DC}			31.2 15.6	
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, 12V_{SB}, 5V_{SB} Voltage Deviation	25% load changes at 1 A/µs 24 V at 1000 µF load / I_{OUT} > 2.5 A 48 V at 560 µF load / I_{OUT} > 1.25 A 12 V_{SB}, 5 V_{SB} at 0-2200 µF load	-	-	±5	%V1 %V_{SB}
V1 Start-up Rise Time	85<V_{IN}<305, any load conditions.	10	-	150	ms
V1 Hold-up Time	At nominal V_{IN}, full load SEMI F47-0706 compliant at ≥208 V_{AC}	10	-	-	ms
	50% sag (104 V)	200	-	-	
	30% sag (145 V)	500	-	-	
	20% sag (166 V)	1000	-	-	
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 750 W, operating 1250 W, 180 ÷ 305 V_{AC} Max load at start up 600 W, operating 1000 W, 85 ÷ 137 V_{AC}	40	-	60	%I1
V1 Remote Sense	RS^+ and RS^- power path voltage loss compensation	-	-	0.36	V
Start-up Delay	V1 in regulation after de-asserting PS_Inhibit	-	-	1700	ms
	V1 in regulation after AC is applied (worst case: 85 V_{AC})	- -	- -	2200 500	
	5V_{SB} in regulation after AC is applied (worst case: 85 V_{AC})	-	-		
Turn-on Overshoot		- -	- -	10 10	%V1 %V_{SB}
Minimum Load	V1, 12 V_{SB}, 5 V_{SB}	0	-	-	A
Maximum Load Capacitance	V1: 24 V_{DC} V1: 48 V_{DC}	- -	- -	16000 8000	µF
V1 Over Current Protection	V1: 24 V_{DC} V1: 48 V_{DC}			46.8 23.4	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	Up to 70 °C	-	-	0.3	A
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	-	V
5 V_{SB} Output Current	Up to 70 °C	-	-	0.72	A
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}

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3.1 OUTPUT POWER DE-RATING CURVES

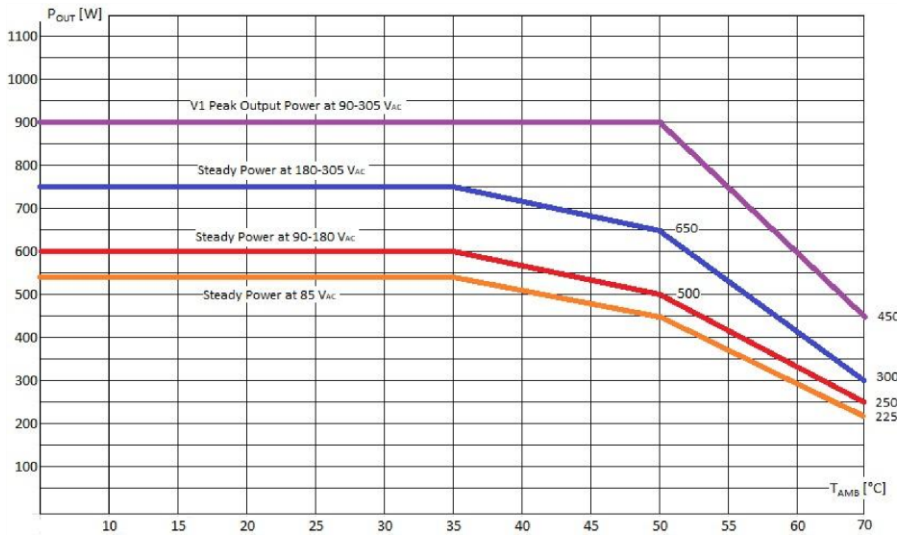

Figure 1 Derating Curves of MCC750 Series V1 P_{OUT} to T_{AMB}

4. POWER MANAGEMENT BUS

The MCC750 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 kΩ) 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 kΩ pull-down resistor or connected to +3.3 V external bus voltage through a 1 kΩ 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 MCC750 Series Power Management Bus management, do refer to the application note, “MCC750 Series Power Management Bus Mgt”. The MCC750 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:

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

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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 µA 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	The I_SHARE 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.				
SDA, SCL, #SMBALERT, ADDR0, ADDR1	These are signals which support Power Management Bus communication protocol as specified in the application note MCC750 Series Power Management Bus Mgt.				
RSVD RX, RSVD TX	Mainly intended for internal use, these RX and TX signals - available at the output signal connector P204 - may be used to access some DSP functions (monitoring, threshold settings, debug functions). These signals work as an UART Rx/Tx port and can also work as a RS-232 Rx/Tx port by building in the "RS-232 LINE DRIVERS/RECEIVERS" IC				
$5V_{SB}$ Output **	Active and in regulation after an 85<V_{AC}<305 is applied Not affected by PS_Inhibit. Available on P204, pin#4	-	-	500	ms
$12V_{SB}$ Output ***	Active and in regulation after an 85<V_{AC}<305 is applied Not affected by PS_Inhibit. Available on P204, pin#16	-	-	500	ms

* When V1 is On, a P_OK low may indicates V1 under voltage condition. When two MCC750 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 MCC750 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 MCC750 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.

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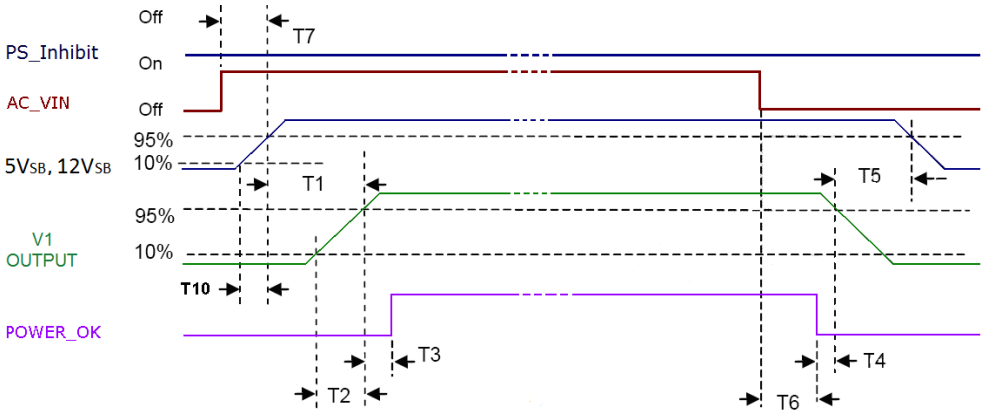
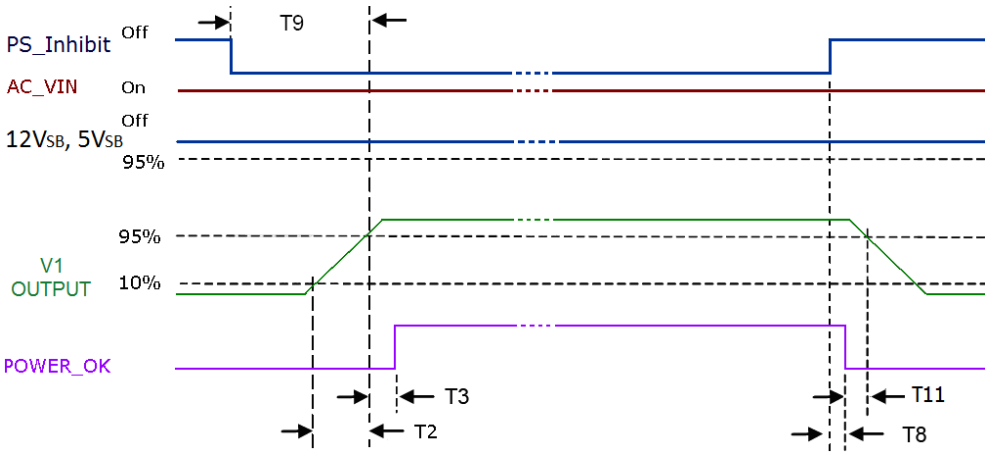
5.1 BASE SIGNALS / CONTROLS TIMING

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
Turn-Off warning	T11 ≥ 1 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	A
Over Current	At nominal input voltages V1: Hiccup mode, auto-recovering 5 V_{SB}: Auto-recovering 12 V_{SB}: Hiccup mode, auto-recovering	 - - -	 - - -	 150 - -	 $\%I1_{Rated}$ A A
Short Circuit	At nominal input voltages V1: Hiccup mode or latch 5 V_{SB}: Auto-recovery 12 V_{SB}: Hiccup mode, auto-recovering.	-	-	-	
Over Voltage	V1, Power shut down, latch off. 12 V_{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.				
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}
Means of Protection: Primary to secondary	2x MoPP (IEC 60601-1 3rd edition) at 90 – 264 VAC, 50/60 Hz (120-300 VDC) up to 4000 m 2x MoOP (IEC 60601-1 3rd edition) at 90 – 305 VAC, 50/60 Hz (120-300 VDC) up to 4000 m				
Means of Protection: Input to Protection Earth	1x MoPP (IEC 60601-1 3rd edition) at 90 – 264 VAC, 50/60 Hz (120-300 VDC) up to 4000 m 1x MoOP (IEC 60601-1 3rd edition) at 90 – 305 VAC, 50/60 Hz (120-300 VDC) up to 4000 m				
MeansoOf Protection: Output to Protection Earth	1x MoPP (IEC 60601-1 3rd edition) at 100 – 250 VAC, 50/60 Hz up to 4000 m				
Equipment Protection Class	Class I, compatible with BF (Body Floating) ME (Medical Equipment)				

7. ENVIRONMENTAL SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
Operating Temperature Range	No derating up to 35 °C See derating curves above MCC750 Series starts at -40 °C upon warm up delay	-20	-	35	°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	MoPP (90 – 264 V_{AC}, 50/60 Hz, 120 – 300 V_{DC}) MoOP (90 – 305 V_{AC}, 50/60 Hz) Power derating above 1800 m	- -	- -	4000 4000	m
Shock	**EN 60068-2-27** Operating: Half sine, 30 g, 18 ms, 3 axes, 6x each (3 positive and 3 negative). Non-Operating: Half sine, 50 g, 11 ms, 3 axes, 6x each (3 positive and 3 negative).				
Vibration	**EN 60068-2-64** Operating: Sine,10 – 500 Hz, 1 g, 3 axes, 1 oct/min., 60 min. Random, 5 – 500 Hz, 0.02 g^2/Hz, 1 g_{RMS}, 3 axes, 30 min. Non-Operating: 5 – 500 Hz, 2.46 g_{RMS} (0.0122 g^2/Hz), 3 axes, 30 min.				
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

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8. ELECTROMAGNETIC COMPATIBILITY (EMC) – EMISSIONS

PARAMETER	DESCRIPTION / CONDITION	STANDARD	PERFORMANCE CLASS
Conducted	115, 230 V_{RMS}, Maximum load	EN 60601-1-2 (Medical)	B
Radiated		EN 60601-1-2 (Medical)	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 package variants, should be assessed at system level.

9. ELECTROMAGNETIC COMPATIBILITY (EMC) – IMMUNITY

PARAMETER	DESCRIPTION / CONDITION		STANDARD	TEST LEVEL	CRITERIA
	Reference standard for the medical version		EN 60601-1-2, 4th Edition		
ESD	15 kV air discharge, 8 kV contact, at any point of the system.		EN 61000-4-2	4	A
Radiated Field	10 V/m, 20-2700 MHz, 1 kHz, 80% AM.		EN 61000-4-3	3	A
Electric Fast Transient	±2 kV on AC power port for 1 minute		EN 61000-4-4	3	A
Surge	±2 kV line to line; ± 4 kV line to earth on AC power port		EN 61000-4-5	4	A
Conducted RF Immunity	10 V_{RMS}, 0,15 – 80 MHz, 1 kHz, 80% AM		EN 61000-4-6	3	A
Dips and Interruptions	200 – 264 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 500 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 240 W) A (derate to 400 W) B

* Performance referred to +5 V_{SB}, +12 V_{SB} 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.60601-1, ANSI/AAMI ES60601-1 3rd Edition + A1	Medical
	IEC/EN 60601-1 3rd edition+A1	Medical
	Directive 93/42/CEE: Safety Requirement of the Medical Device Directive 2014/30/EU: Electromagnetic Compatibility (EMC) Directive EU 2015/863: RoHS 3	Medical
	Meets all essential requirements of the standard IEC/EN/UL/CSA 61010-1 2nd edition	

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11. CONNECTIONS AND PIN DESCRIPTION

CONNECTIONS	CONNECTOR	REFERENCE	FUNCTION	
AC Input Connections	**P1:** AMTEK TB25C-B02P-13-00A-L M4 GROUND STUD	1	Line 1	
		2	Line 2	
		3	Protection Earth	
DC Input Connections	**P200, P201, P202, P203:** BRASS M4 THREADED TERMINALS (tight to 0.8 – 1 Nm, max. deep screws 7 mm)		**24 V Optional**	**24 / 48 V**
		P200	+V1	+V1
		P201	+V1	-
		P202	V1 RTN	V1 RTN
		P203	V1 RTN	-
Signal Connector	**P204:** MOLEX 501876-1640	1	RMT (-)	
		2	RMT (+)	
		3	I-SHARE	
		4	+5 V_{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	+12 V_{SB}	
Additional Control Functions		SW600	V1_ADJ (UP)	
		SW601	V1_ADJ (DOWN)	
		DL600	Bi-colour LED	
		Off	No AC/DC input power provided	
		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	1087 g (2.40 lb) – models without protective cover 1125 g (2.48 lb) – models with protective cover
Overall Dimensions	101.6 x 234.0 x 41.0 mm (4.00 x 9.21 x 1.61 in) – models without protective cover 101.6 x 234.7 x 41.0 mm (4.00 x 9.24 x 1.61 in) – models with protective cover

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12.1 OUTLINE DRAWING & CONNECTIONS – MCC750-1T24 / MCC750-1T48 MODELS

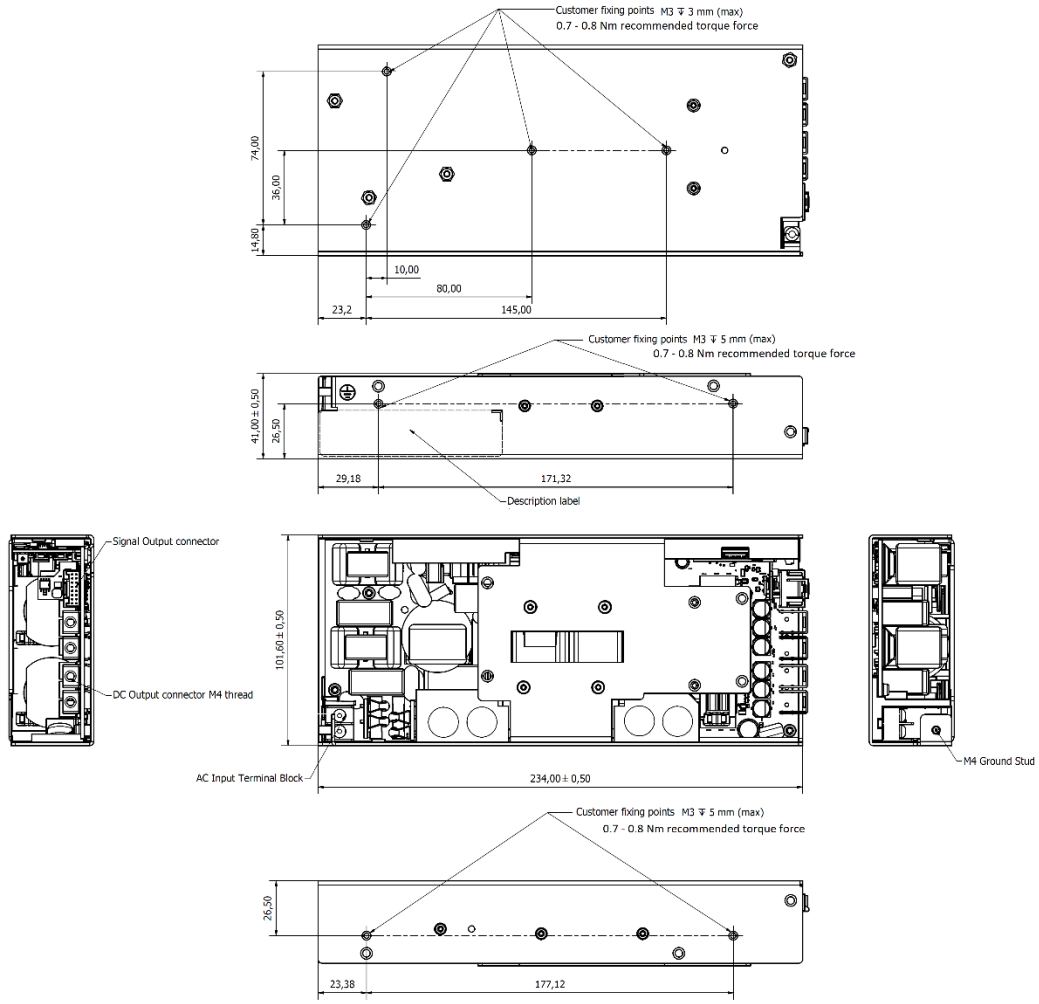

Figure 2. Mechanical Drawing – MCC750-1T24 / MCC750-1T48 Models

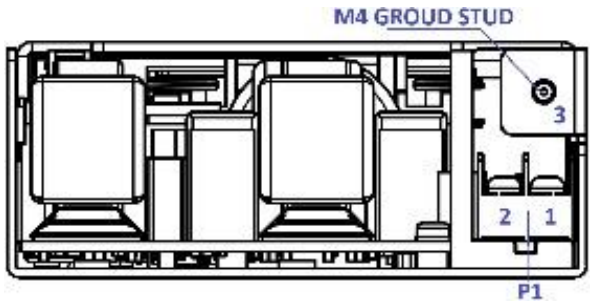

Figure 3. Front View - MCC750-1T24 / MCC750-1T48 Models

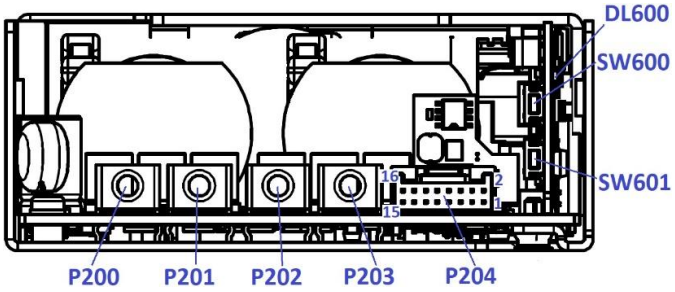

Figure 4. Rear View - MCC750-1T24 / MCC750-1T48 Models

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12.2 OUTLINE DRAWING & CONNECTIONS – MCC750-1T24-PC / MCC750-1T48-PC MODELS

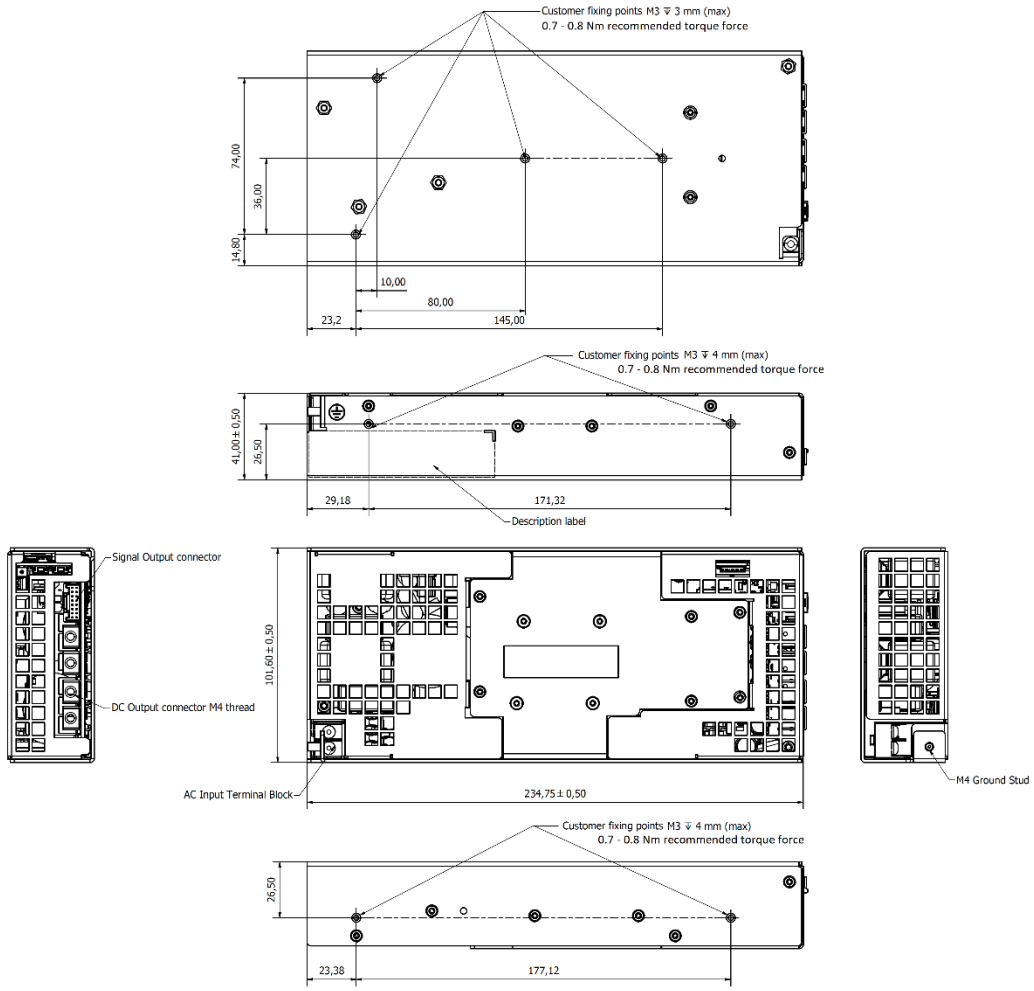

Figure 5. Mechanical Drawing - MCC750-1T24-PC / MCC750-1T48-PC Models

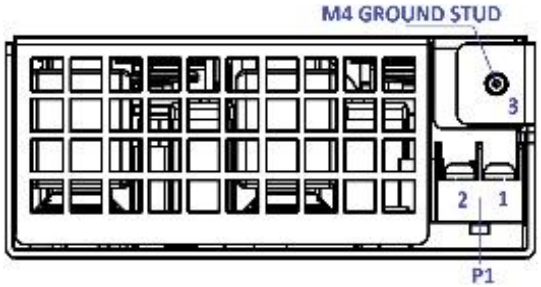

Figure 6. Front View - MCC750-1T24-PC / MCC750-1T48-PC Models

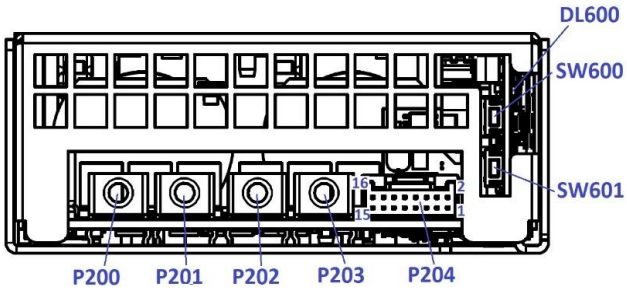

Figure 7. Rear View - MCC750-1T24-PC / MCC750-1T48-PC Models

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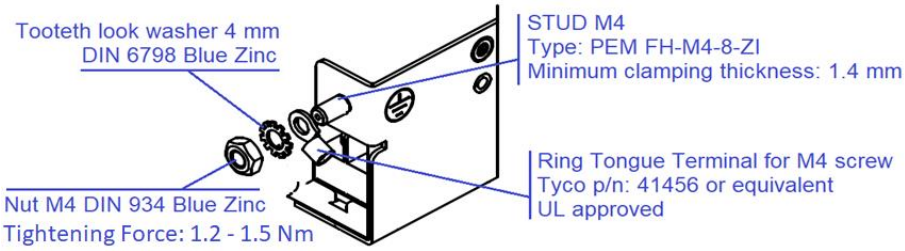
12.3 PROTECTION EARTH CONNECTION INSTRUCTIONS



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

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