MCC750 Series 750 W AC-DC Power Supplies

The MCC750 Series of AC-DC power supplies provides up to 750 W of regulated output power through wide input voltage range 85 – 305 VAC in a single output of 24 VDC 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%
- 24 VDC / 48 VDC output voltage 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, 0.5 A; +5 V, 1 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

Applications

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

				NOM		110117
PARAMETER	DESCRIPTION / CONDITION	·	MIN	NOM	MAX	UNIT
AC Input Voltage	PS starts at 85 V _{AC} at all load condit Operating input voltage range MCC750 Series is designed to oper voltage wave form (i.e. from UPS)	ions ate with a square or trapezoidal input	85	100-277	305	V _{RMS}
DC Input Voltage	Built in fuses safety certified up to 2 that limit up to $300 V_{DC}$, does require	50 V _{DC} . Operating the MCC750 above e 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}
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} (2	50 V _{DC}) on each AC line.	-	-	16 / 20	А
Efficiency	At 120 V _{AC}	20% rated load 50% rated load 100% rated load	85 92 92	- - -		%
,	At 230 V _{AC}	20% rated load 50% rated load 100% rated load	87 93 94	- - -	- - -	
Input Power Consumption	At power on, no load, 100-277 VAC Stand by, no load, nominal 100-277		-	6.0 3.5	-	W
Power Factor	Any nominal input line voltage, 50/6	0 Hz, from 50 to 100% maximum load	0.95	-	-	-
THDi	From 50 to 100% rated load, 100-2	77 V _{AC} ,50/60 Hz.	-	-	20	%
Harmonic Current Fluctuations and Flicker	Complies with EN 61000-3-2 at 230 Complies with EN 61000-3-2 Class Complies with EN 61000-3-3 at non	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)		- -	150 170 -	- - 400	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



3. OUTPUT SPECIFICATIONS

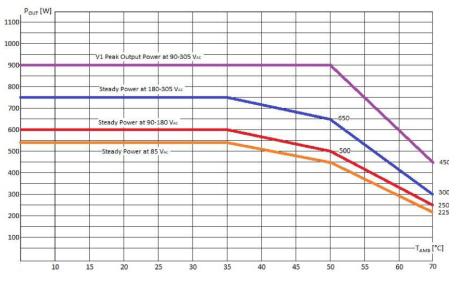
PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
V1 Output Voltages	±0.5% set point accuracy RS+ closed on +V1, RS- closed on V1 RTN, at 6% load.	-	24 48	-	V
	85 – 137 V _{AC} (120-163 V _{DC}), 800 LFM			600	w
V1 Output Power Rating	180 – 305 V _{AC} (163-300 V _{DC}), 800 LFM			750	vv
	Peak, <10 s, after P_Ok asserted high			900	
V1 Output Current	85 – 137 V _{AC} (120-163 V _{DC}) V1: 2 V1: 2	8 VDC		25.7 12.5	A
·	180 – 305 V _{AC} (163-300 V _{DC}) V1: 2 V1: 4	4 VDC 8 VDC		31.2 15.6	
V1 Voltage Adjustment Range	Manually by push up and down buttons	-	±5	-	%V1
V1 Line Regulation	Vac: 85 – 305 Vrms	-	-	±0.1	%V1
V1 Load-Line-Cross Regulation	V _{AC} : 85 – 305 V _{RMS} ; 11: 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, 12Vsв, 5Vsв Voltage Deviation	$\begin{array}{l} \label{eq:constraint} 25\% \mbox{ load changes at 1 A/µs} \\ 24 V \mbox{ at 1000 μF load / lout > 2.5 A} \\ 48 V \mbox{ at 560 μF load / lout > 1.25 A} \\ 12 V_{SB}, 5 V_{SB} \mbox{ at 0-2200 μF load} \end{array}$	-		±5	%V1 %V _{SB}
V1 Start-up Rise Time	85 <v<sub>IN<305, any load conditions.</v<sub>	10	-	150	ms
14 Hald on T ime	At nominal V _{IN} , full load SEMI F47-0706 compliant at ≥208 V _{AC}	10	-	-	
V1 Hold-up Time	50% sag (1 30% sag (1 20% sag (1	45 V) 500	-	-	ms
V1 Current Sharing Accuracy	Parallel operation up to four units. Two units in parallel at 11 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	%11
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 V1 in regulation after AC is applied (worst case: 85 V _{AC})	-	-	1700 2200	ms
	$5V_{SB}$ in regulation after AC is applied (worst case: 85 V _{AC})	-	-	500	
Turn-on Overshoot		-	-	10 10	%V1 %Vsв
Minimum Load	V1, 12V _{SB} , 5V _{SB}	0	-	-	A
Maximum Load Capacitance	V1: 2		-	16000	μF
V1 Over Current Protection	V1: 4 V1: 2 V1: 4	4 V _{DC}	-	8000 46.8 23.4	А
12 V _{SB} Output Voltage	V_{SB} output voltage is referred to the same V1 output voltage r	eturn -	12	-	V
12 V _{SB} Output Current	Up to 70 °C	-	-	0.3	А
12 V _{SB} Ripple & Noise	Peak-to-peak			120	mV
12 VSB Line Cross Regulation	Vac: 85 – 305 Vrms; Isb: 0 – 100%	-	-	±5	%Vse
5 V _{SB} Output Voltage	V_{SB} output voltage is referred to the same V1 output voltage r	eturn -	5	-	V
5 V _{SB} Output Current	Up to 70 °C	-	-	0.72	А
5 V _{SB} Ripple & Noise	Peak-to-peak			50	mV
5 V _{SB} Load, line cross Regulation	Vac: 85 – 305 Vrms; Isb: 0 – 100%	-	-	±5	%Vse



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3.1 OUTPUT POWER DE-RATING CURVES

Figure 1 Derating Curves of MCC750 Series V1 POUT to TAMB

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 k Ω) 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 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



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 SDA, SCL, #SMBALERT, ADDR0, ADDR1	The I_SHARE signals shall be daisy chained among power supplies operation On a single power supply operating it provides current measurement on V1 On multiple power supplies operating in parallel, it provides current measure These are signals which support Power Management Bus communication prote MCC750 Series Power Management Bus Mgt.	output. ement on	master V1		plication
RSVD RX, RSVD TX	Mainly intended for internal use, these RX and TX signals - available at the of P204 - may be used to access some DSP functions (monitoring, threshold s These signals work as an UART Rx/Tx port and can also work as a RS-232 "RS-232 LINE DRIVERS/RECEIVERS" IC	settings, d	ebug func	tions).	
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 Active and in regulation after an $85 < V_{AC} < 305$ is applied	-	-	500 500	ms ms
12V _{SB} Output ***	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.

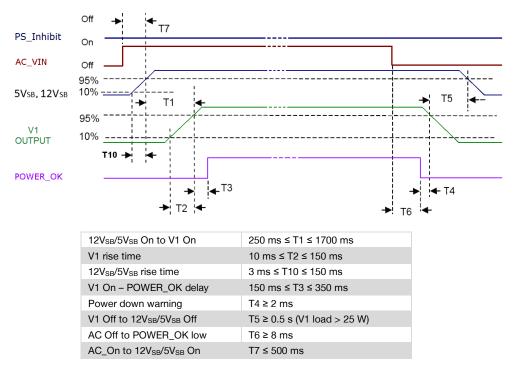


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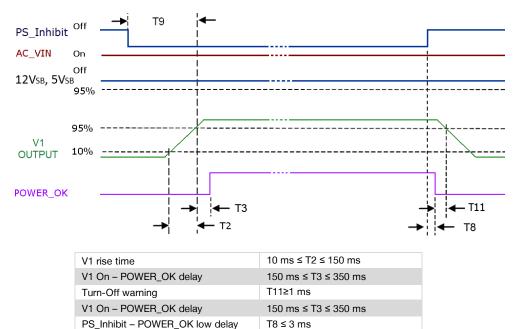
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5.1 BASE SIGNALS / CONTROLS TIMING

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



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



T9 ≤ 1700 ms



PS_Inhibit - V1 On delay

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	А
Over Current	At nominal input voltages V1: Hiccup mode, auto-recovering	-	-	150	%I1 _{Rated}
	5VsB: Auto-recovering 12VsB: Hiccup mode, auto-recovering	-	-	-	A A
Short Circuit	At nominal input voltages V1: Hiccup mode (24 V) or latch (48 V) 5V _{SB} : Auto-recovery 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.				
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	-	-	VAC
Means of Protection: Primary to secondary Means of Protection:	2x MoPP (IEC 60601-1 3rd edition) at 90 – 264 VAC, 50/60 Hz (120- 2x MoOP (IEC 60601-1 3rd edition) at 90 – 305 VAC, 50/60 Hz (120- 1x MoPP (IEC 60601-1 3rd edition) at 90 – 264 VAC, 50/60 Hz (120-	-300 VDĆ) u	p to 4000 r	n	
Input to Protection Earth MeansoOf Protection: Output to Protection Earth	1x MoOP (IEC 60601-1 3rd edition) at 90 – 305 VAC, 50/60 Hz (120- 1x MoPP (IEC 60601-1 3rd edition) at 100 – 250 VAC, 50/60 Hz up t	-300 VDĆ) u			
Equipment Protection Class	Class I, compatible with BF (Body Floating) ME (Medical Equipment	t)			

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 dela	-20 y	-	35	°C
Operating Temperature Range with Derating	See derating curves and conditions in the Output Sp section	pecifications	-	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, Non-Operating: Half sine, 50 g, 11 ms, 3 axes,				
Vibration	EN 60068-2-64 Operating: Sine,10 – 500 Hz, 1 g, 3 axes, Random, 5 – 500 Hz, 0.02 g²/l Non-Operating: 5 – 500 Hz, 2.46 g _{RMS} (0.0122	Hz, 1 g _{RMS} , 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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PARAMETER	DESCRIPTION / CONDITION	STANDARD	PERFORMANCE CLASS
Conducted	115, 230 V_{RMS} , Maximum load	EN 60601-1-2 (Medical)	В
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

8. ELECTROMAGNETIC COMPATIBILITY (EMC) – EMISSIONS

* 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 standa	rd for the medical version	EN 60601-1-2, 41	th Edition	
ESD		15 kV air discharge, 8 kV contact, at any point of the system.		4	А
Radiated Field	10 V/m, 20-2700 l	10 V/m, 20-2700 MHz, 1 KHz, 80% AM.		3	А
Electric Fast Transient	±2 kV on AC pow	er port for 1 minute	EN 61000-4-4	3	А
Surge	±2 kV line to line;	± 4 kV line to earth on AC power port	EN 61000-4-5	4	А
Conducted RF Immunity	10 V _{RMS} , 0,15-80	MHz, 1 kHz, 80% AM	EN 61000-4-6	3	А
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 +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.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	Medical
	Directive 2014/30/EU: Electromagnetic Compatibility (EMC)	
	Directive 2011/65/EU: RoHS 2	
	Meets all essential requirements of the standard IEC/EN/UL/CSA 61010-1 2	nd edition



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: MOLEX 501876-1640	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 Function		SW600		
		SW601	V1_ADJ (DOWN)	
		DL600	Bi-colour LED	
		Off	No AC/DC input power provided	
		Blinking Green	Input power good, standby active V1 inhibited	9,
		Steady Green	V1 Active	
		Steady or Blinking rec	Power Supply Fault	

12. MECHANICAL SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION
Weight	1150 g (2.53 lb) – models without protective cover 1250 g (2.75 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

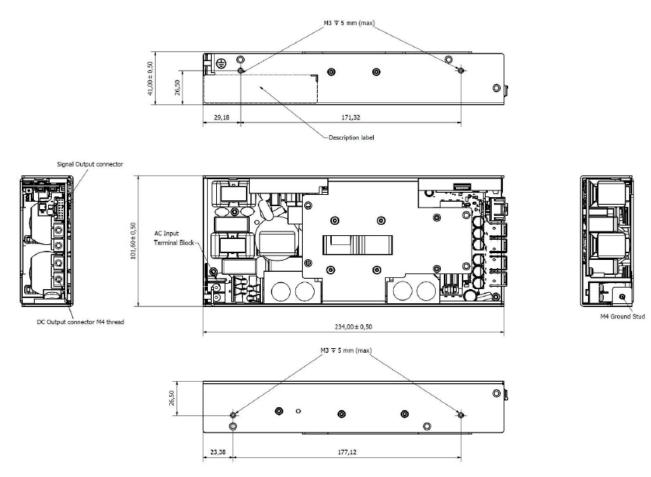


Figure 2. Mechanical Drawing – MCC750-1T24 / MCC750-1T48 Models

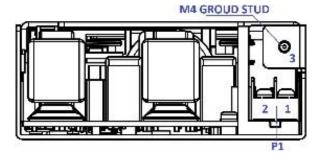


Figure 3. Front View - MCC750-1T24 / MCC750-1T48 Models

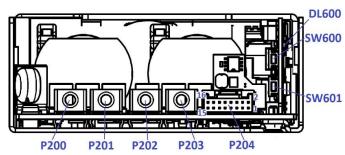


Figure 4. Rear View - MCC750-1T24 / MCC750-1T48 Models



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

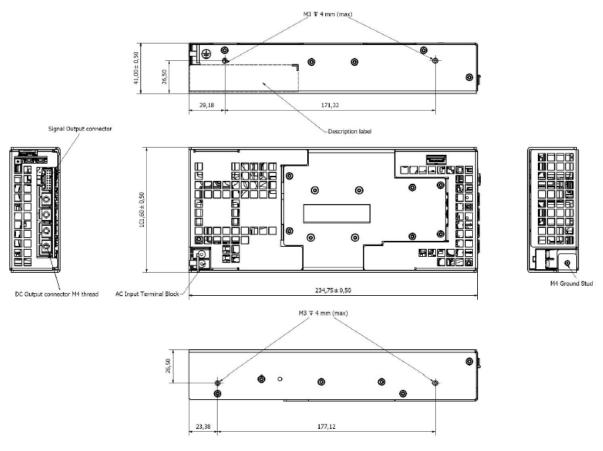
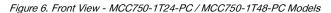
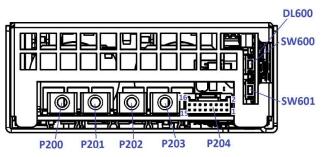
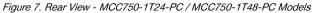


Figure 5. Mechanical Drawing - MCC750-1T24-PC / MCC750-1T48-PC Models









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.

TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.



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