



# MELCON

## MODEL NO: MLCT2460



### Aluminium case Power Supply

Feature	Specifcaton
Input voltage	180~264VAC
Output voltage	24V DC
Current Range(Peak)	0~2.5A
Output Power (Peak)	60W
Ripple & Noise (max;)	100-150 -mV P-P
Voltage Adj; Range- Switch	23.6~25.9V ( 3 Positions Normal-24VDC; Long 25VDC;Extra Long-26VDC )
Line Regulator	±1;0%
Voltage Tolerance	±2;0%
Setup Rise time	600ms , 30ms at full load
Hold Up Time (Typ;)	13ms at full load
Load Regulation	±5;0%
Temperature coefficient	±0;03%/°C (0~50°C)
Frequency Range	47~63HZ
Efficiency (Typ;)	84%
C Current (Typ;)	5mA@115VAc & 3mA/230VAC
Inrush Current (Typ;)	20A/115VAC 40A/230VAC
Leakage Current	<2mA / 240VAC
Over Load	110~120% rated output power, Protection type: Shut down O/P, re -power on to recover
Isolation Resistance	I/P -O/P, I/P -FG, O/P -FG:100M Ohms / 500VDC / 25°C/ 70% RH
Working Humidity	20~90% RH Non -condensing
Vibraton	10 ~ 500Hz, 3G 10min;/1 cycle,60min;each along X, Y, Z axis
Dimension	86(L) x 49(W) x 133mm(H)
Store temperature	-20~+40°C
Working temperature	-20~+65°C, 10~95%RH
Withstand Voltage	I/P -O/P: 1.5KVAC I/P -FG: 1.5KVAC O/P -FG:0.5KVAC
Protections	Input OVP>290VAc, Output Short, Thermal, Overload all Auto recovery protections



# MELCON

## MODEL NO: MLCT 24120



### Aluminium case Power Supply

Feature	Specifications
Input voltage	180~264VAC
Output voltage	24V DC
Current Range (Peak)	0~4.5A
Output Power (Peak)	120W
Ripple & Noise (max;)	100-150 -mV P-P
Voltage Adj; Rang e- Switch	23.6~25.9V ( 3 P ositions Normal-24VDc; Long 25VDc;Extra Long-26VDc )
Line Regulaton	±1;0%
Voltage Tolerance	±2;0%
Setup Rise time	600ms , 30 ms at full load
Hold Up Time (Time)	13ms at full load
Load Regulation	±5;0%
Temperature coeffcient	±0;03%/°C (0~50°C)
Frequency Range	47~63HZ
Efficiency (Typ;)	84%
C Current (Typ;)	5mA@115VAC & 3mA/230V AC
Inrush Current (Typ;)	20A/115VAC 40A/230VAC
Leakage Current	<2mA / 240VAC
Over Load	110~120% rated output power, Protection type: Shut down O/P, re-power on to recover
Isolation Resistance	I/P -O/P, I/P -FG, O/P -FG:100M Ohms / 500VDC / 25°C/ 70% RH
Working Humidity	20~90% RH Non-condensing
Vibraton	10 ~ 500Hz, 3G 10min;/1 cycle,60min;each along X , Y , Z axis
Dimension	86(L) x 49(W) x 160mm(H)
Store temperature	-20~+40°C
Working temperature	-20~+85°C, 10~95%RH
Withstand Voltage	I/P -O/P: 1.5KVAC I/P -FG: 1.5KVAC O/P -FG:0.5KVAC
Protections	Input OVP>290VAc, Output Short, Thermal, Overload all Auto recovery protections

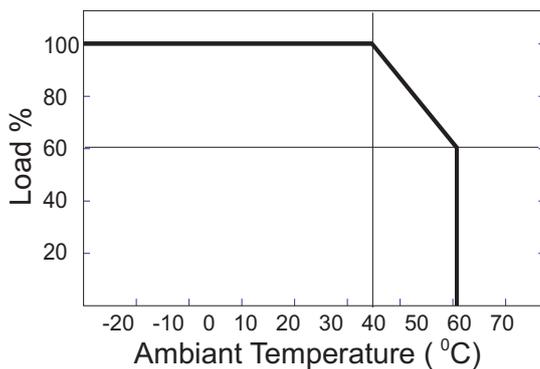
# Power Supply MLCT2460 / MLCT24120

**Recommended to Operate with additional aluminum plate for Congested area installations:**

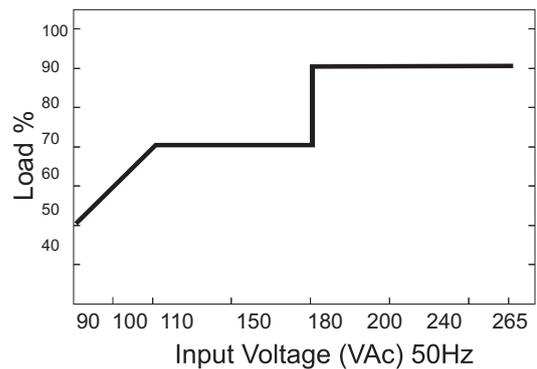
Aluminum plate(or the cabinet of the same size) on the bottom. The size of the suggested Aluminum plate is shown as below. And for optimizing thermal performance, the Aluminum plate must have an even and smooth surface In order to meet the“Derating Curve”and the “Static Characteristics” must be installed onto an (or coated with thermal grease), and **MLCT2460/MLCT24120** firmly mounted at the center of the Aluminum plate.



**Thermal behavior- Derating Curve**



**Static Performance characteristics**



## **Power Supply MLCT2460/MLCT24120 :**

This Switching Power Supply (SMPS) tested independently and recommended to use as per following Instructions It needs to be installed into the end system and connected to the load. EMI- EMC check of the system as per applicable standards performed. The test result are significantly influenced by the application or assembly of the end system. products “intended for the end user” (MLCT2460/MLCT24120 is external power supply - adaptor) comply with the EMC directive. MLCT power supply is enclosed type closed frame type SMPS, which are intended for incorporation to be used as apparatus by professional system integrators, and designed to meet the requirements of the standard rated performance (See Fig B) MLCT2460/MLCT24120 switching power supply is standard product that is widely used in applications like CCTV,LED,Industrial power supply (Non Inductive use), Chargers etc.

Power supply is built into a metal cabinet, For thermal stability and better performance assemble the power supply on a defined metal plate (as shown in Figure A).Use resistive load that are fixed on the metal plane for the best performance life keep safety factor of 30% load as general applications.

The output wire should be twisted and flatly placed on and within the range of the metal plate. For specific applications such as LED lighting or battery charging, use standard lamps (lighting) or battery loads

The power supply MLCT2460/MLCT24120 load should be put together or separated apart. CE declaration is based on conformity of power supply under standard operating conditions.