PML12050A007V

C262-01-01D

ABSOLUTE MAXIMUM RATINGS

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device.

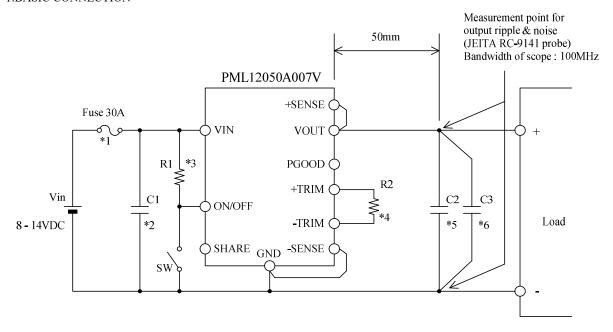
ITEMS	Symbol	Min	Max	Unit	Notes & Conditions
Continuous Input Voltage	Vin	-0.3	14	Vdc	
Operating Case Temperature	Tc	-40	110	°C	See Derating Curve
Operating Ambient Temperature	Ta	-40	85	°C	
Storage Temperature	Tstg	-55	125	°C	

ELECTRICAL SPECIFICATIONS

ITEMS	Symbol	Min	Тур	Max	Unit	Notes & Conditions	
Operating Input Voltage	Vin	8	12	14	V		
Maximum Input Current	Iin,max			14.4	A	Vin=Vin,min, Vo=Vo,set, Io=Io,max	
Output Voltage Set-point	Vo,set	-1.5		+1.5	% Vo,set	Vin=Vin,nom, Io=Io,max,Ta=25°C, TRIM resistor tolerance = +/-0.5% or less	
Output Voltage Tolerance	Vo,set	-3		+3	% Vo,set	Over all operating input voltage, resistive load, and temperature conditions to end of life, TRIM resistor tolerance = +/-0.5% or less	
Line Regulation				10	mV	Vin=Vin,min to Vin,max	
Load Regulation				10	mV	Io=Io,min to Io,max	
Output Voltage Adjustment Range		0.7		2	V		
Remote Sense Range				0.5	V		
Output Ripple and Noise Voltage				50	mVp-p	Co=100μFx5+0.1μF, Refer to C262-01-02_	
External Load Capacitance	Co,max	47	500	1000	μF		
Output Current	Io	0		50	A	See Derating Curve	
Output Current Limit Threshold	Io,lim	105			% Io,max	Vo=0.9xVo,set, Ta=25°C	
Efficiency Vo=0.7V	η		83		%	Vin=12V, Io=Io,max, Vo=Vo,set, Ta=25°C	
Vo=1.2V	η		89		%		
Vo=2V	η		92		%		
Switching Frequency	fsw		210		kHz	Fixed	
Turn-On Input Voltage			7.2		V		
Turn-Off Input Voltage			4.9		V		
On/Off Control Remote On	Von/off			0.8	V		
Remote Off	Von/off	4			V		
Turn-On Delay Time	Tdelay		5		ms	From application of input voltage until Vo=0.1xVo,set. Vin=Vin,nom, Vo=Vo,set, Io=Io,max, Ta=25°C	
	Tdelay		5		ms	From ON/OFF enabled until Vo=0.1xVo,set. Vin=Vin,nom, Vo=Vo,set, Io=Io,max, Ta=25°C	
Output Voltage Rise Time	Trise		2		ms	From Vo=0.1xVo,set until Vo=0.9xVo,set. Io=Io,max, Ta=25°C	
Output Voltage Overshoot				3	% Vo,set	Co=100µFx5+0.1µF	
Over Temperature Protection	Тс		140		°C	C0-100μrx3+0.1μr	
Parallel Operation	10		Possible			Refer to Instruction Manual for Parallel operation.	
PGOOD Over Voltage Threshold			112.5	l	% Vo,set	_	
Under Voltage Threshold			87.5		% Vo,set		
Internal Pull up Voltage	Vpg		5		V		
Weight	v pg		11.4		g		
Safety						368 1 CSA62368 1 EN62368 1	
•		Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1:20/12/2020)					
Derating Curve	100 80 (\$\sigma\$) 60 \text{\tinx{\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\texi{\text{\texi}\text{\text{\texit{\texi{\texi{\texi\texi{\texi{\texi{\texi\tin}\tint{\texi{\texi}\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi	60 -40	-20	0 20	40 6	Refer to Instruction Manual for Tc Location. 0 80 100 ¹¹⁰ 120	

C262-01-02B

1.BASIC CONNECTION



*Read instruction manual carefully, before using the power supply unit.

==NOTES==

*1. Use an external fuse (Normal blow type) for each unit.

*2. Put input capacitor.

C1 : Ceramic capacitor 25V, 22uF x 7 in parallel

*3. Pull up Resistor.

R1 : Resistor 4.7kΩ

*4. Output Voltage Adjustment Resistor.(Refer to Instruction Manual.)

*5. Put output capacitor.

C2: Ceramic capacitor 50V, 0.1uF

*6. Put output capacitor.

C3: Ceramic capacitor 6.3V, 100uF x 5 in parallel

2.OPTION TABLE

PML12050A007V-XXX

Option code	ON/OFF	Short code
000	Positive Logic	L500
001 (Standard)	Negative Logic	L501

Short code is indicated on name plate.