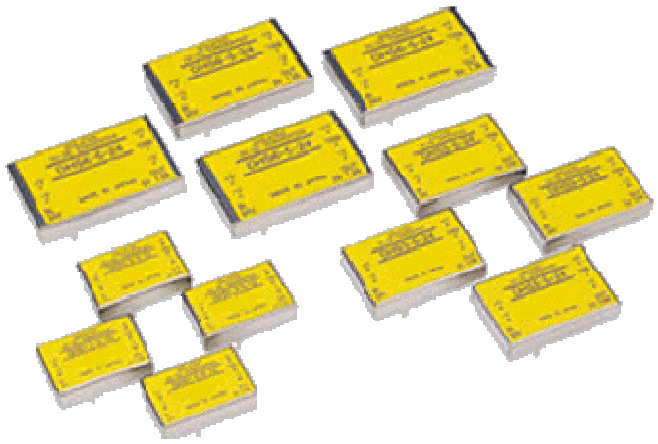
ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

DC/DC SWITCHING POWER SUPPLY
DC INPUT 5,24
SINGLE OUTPUT
10 WATTS



PMS10-SC-NG SERIES

General Description

PM S 10 - x S C x - NG

- PM: Series Name
- S: Wattage: S...10W
- 10: Output power
- x: Output Voltage
- S: Single Output
- C: Input Voltage
- x: Input Voltage
- NG: Internal Code

Dimension [mm]: 45×34.69×7 (W×D×H)

DC INPUT: 5V

Input Characteristics	Unit	PMS10-05SC05-NG	PMS10-12SC05-NG
Rated input voltage	Vdc	DC 5V	
Input voltage range	Vdc	DC 4.5~9V	
Input current (typ.)	A	2.14	2.24
Efficiency *1	%	75%	75%

PMS10-xSC05-NG

Output Characteristic	Unit	Models	
		PMS10-05SC05-NG	PMS10-12SC05-NG
Rated Output Voltage	Vdc	5	12
Rated Output Power	W	8	8.4
Rated Output Current *5	A	1.6 (peak 2.0)	0.7 (peak 0.9)
Output voltage range *1	%	±3%	
Ripple Noise(Max.)	mV p-p	60	90
Regulation			
a. Line Regulation	mV	20	48
b. Load Regulation	mV	40	100
c. Temperature Regulation*2	mV	50	150

ETA USA
16170 Vineyard Blvd. Suite 180, Morgan Hill, CA 95037
Phone: 1-800-ETA-POWR, (408) 778-2793 Fax: (408) 779-2753
Visit us at: www.eta-usa.com
email at: sales@eta-usa.com

DC INPUT: 24V

Input Characteristics	Unit	PMS10-3.3SC24-NG	PMS10-05SC24-NG	PMS10-12SC24-NG	PMS10-15SC24-NG
Rated input voltage	Vdc	DC 24V			
Input voltage range	Vdc	DC 18 ～ 36V			
Input current (typ.)	A	0.37	0.53	0.55	0.53
Efficiency *1	%	75%	80%	82%	83%

PMS10-xSC24-NG

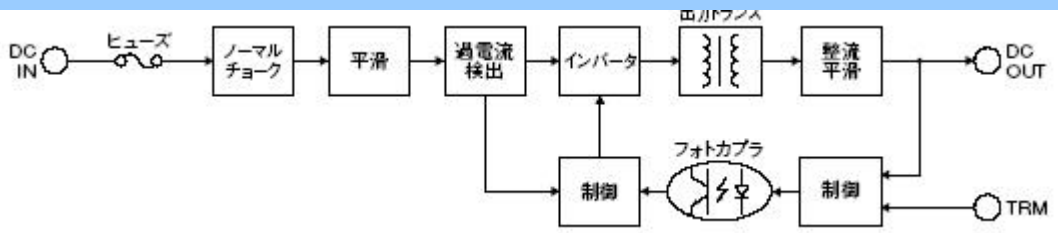
Output Characteristic	Unit	Models			
		PMS10-3.3SC24-NG	PMS10-05SC24-NG	PMS10-12SC24-NG	PMS10-15SC24-NG
Rated Output Voltage	Vdc	3.3	5	12	24
Rated Output Power	W	6.6	10	10.8	10.5
Rated Output Current *5	A	2.0	2.0	0.9	0.7
Output voltage range *1	%	±3%			
Ripple Noise(Max.)	mV p-p	60	60	90	90
Regulation					
a. Line Regulation	mV	20	20	48	60
b. Load Regulation	mV	40	40	100	120
c. Temperature Regulation*2	mV	50	50	150	180

Environmental Specification				
Operating Temperature *4	Convection cooling:-20～+71℃ Forced air cooling:-20～+85℃			
Operating Humidity	20～95%RH (No dew condensation permitted)			
Storage Temperature	-40～+85℃			
Storage Humidity	20～95%RH (No dew condensation permitted)			
Cooling	Convection cooling / Forced air cooling			
Dielectric Strength				
Withstand Voltage	Input-FG 500VAC for 1 min. Input-Output 500VAC for 1 min. Output-FG 500VAC for 1min.			
Insulation Resistance	Input-FG 50MΩ at 500VDC Input-Output 50MΩ at 500VDC Output-FG 50MΩ at 500VDC			
Functions				
Over Current Protection	Automatic recovery			
Vin=5 Vdc	2.1A～		0.95A～	
Vin=24Vdc	2.1A～	2.1A～	0.95A～	0.74A～
Over Voltage Protection	N/A			
Vin=5 Vdc	5.75V～		13.8V～	
Vin=24Vdc	3.8V～	5.75V～	13.8V～	17.3V～
Trimming of output voltage *3	±10%			
Input fuse	Built-in			
Structure & Others				
Vibration Resistance	10～55Hz Acceleration:98m/s2(10G) Cycle: 3min. Direction: X,Y,Z for 1 hour each			
Shock Resistance	Acceleration:490.3m/s2(50G) Time: 11ms Direction: X,Y,Z for 1hour each			
Mechanical				
Dimension [mm]	45×34.69×7(W×D×H)			
Weight [g](typical)	25g			

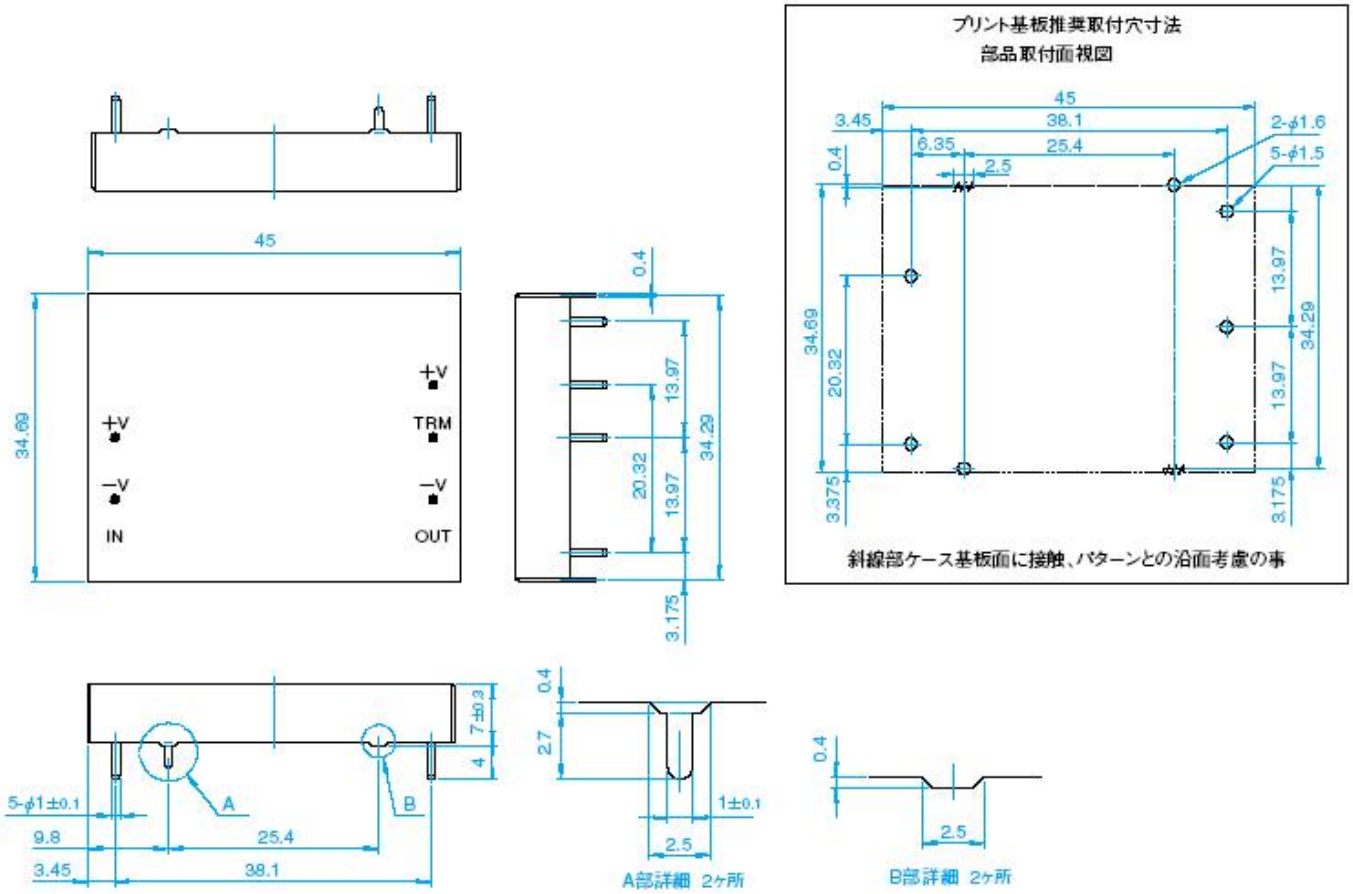
Conditions:
*1 At Rated input voltage, Rated output current, Operating temp. 25℃
*2 At operating temp. -20～+71℃
*3 Possible by inserting appointed resistor at outside.
*4 Load should be reduced for operation at 55℃ or above at convection cooling, and at 70℃ or above at forced air cooling.
*5 Peak current is within 10minutes.

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BLOCK DIAGRAM



DIMENSION DIAGRAM (mm)



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