

- ① Series name
- ② Output wattage
- ③ UL recognized, TÜV approved, CSA certified : E
- ④ Output voltage combination
- ⑤ Optional
C : with Coating
G : Low leakage current

PMC

MODEL		PMC15E-1	PMC15E-2	PMC15E-3
DC OUTPUT	V1	+5V 2.0A	+5V 2.0A	+5V 2.0A
	V2	+12V 0.3A	+15V 0.3A	+12V 0.3A
	V3	-12V 0.2A	-15V 0.2A	-5V 0.2A

SPECIFICATIONS

	MODEL	PMC15E-1	PMC15E-2	PMC15E-3							
INPUT	VOLTAGE[V]	AC85 - 264 1φ or DC110 - 370									
	CURRENT[A]	ACIN 100V	0.4typ (Io=100%) Universal Input								
		ACIN 200V	0.2typ (Io=100%) Universal Input								
	FREQUENCY[Hz]	47 - 440 or DC									
	EFFICIENCY[%]	ACIN 100V	65typ (Io=100%)								
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%) (At cold start)								
OUTPUT	VOLTAGE[V]	+5	+12	-12	+5	+15	-15	+5	+12	-5	
	CURRENT[A]	2.0	0.3	0.2	2.0	0.3	0.2	2.0	0.3	0.2	
	MINIMUM CURRENT[A]	0.1	0	0	0.1	0	0	0.1	0	0	
	LINE REGULATION[mV]	20max	48max	48max	20max	60max	60max	20max	48max	20max	
	LOAD REGULATION[mV]	100max	120max	120max	100max	150max	150max	100max	120max	50max	
	RIPPLE[mVp-p]	100max	60max	60max	100max	60max	60max	100max	60max	60max	
	RIPPLE NOISE[mVp-p]	120max	150max	150max	120max	150max	150max	120max	150max	150max	
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	350max	350max	50max	350max	350max	50max	350max	350max
	START-UP TIME[ms]	100max (ACIN 85V, Io=100%)									
	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%)									
PROTECTION CIRCUIT	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed	
	OUTPUT VOLTAGE SETTING[V]	—	11.4 to 12.6	-11.4 to -12.6	—	14.25 to 15.75	-14.25 to -15.75	—	11.4 to 12.6	-4.75 to -5.25	
ISOLATION	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically									
	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	INPUT-CASE	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)									
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)									
ENVIRONMENT	OUTPUT-OUTPUT(V1-V2,V3)	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩmin (At Room Temperature)									
	OPERATING TEMP., HUMID. AND ALTITUDE	0 to +65°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max									
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max									
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 30minutes each along X, Y and Z axis									
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis									
	AGENCY APPROVALS	UL60950-1, CSA C22.2 No.234, EN60950-1, EN50178 Complies with IEC60950-1 and DEN-AN									
	CONDUCTED NOISE	Complies with FCC-B									

* Series/Parallel operation with other model is not possible.

External view

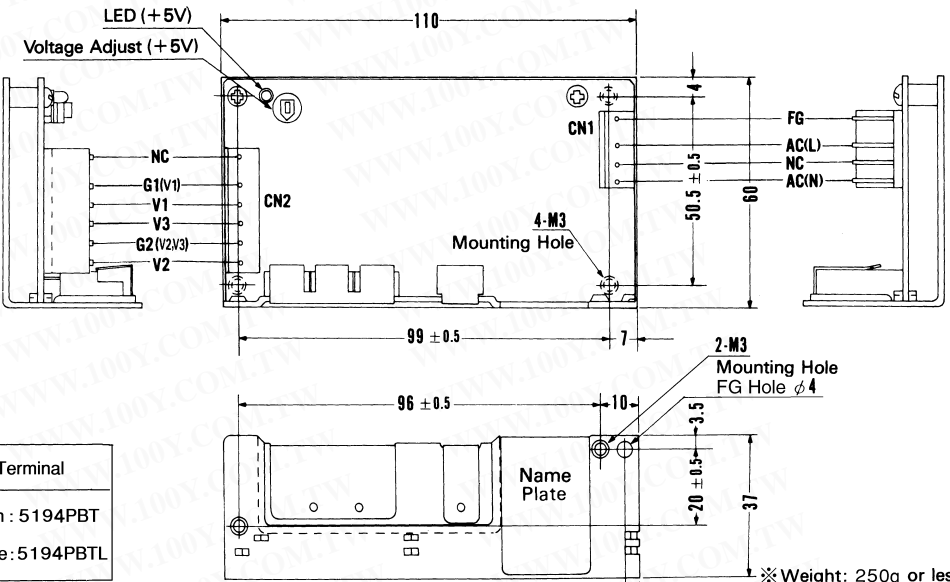
(PIN CONNECTION)

CN1	PIN NO.	INPUT
	1	FG
	2	AC (L)
	3	NC
4	AC (N)	

CN2	PIN NO.	OUTPUT
	1	NC
	2	G1
	3	V1
	4	V3
	5	G2
6	V2	

※V1 is Isolated from V2 and V3.

I/O Connector	Mating Connector	Terminal
CN1	5289-4A	5199-04
CN2	5289-6A	5199-06

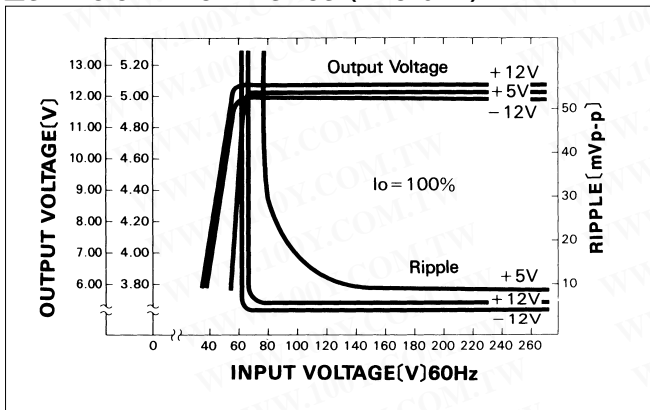


(Mfr: Molex)

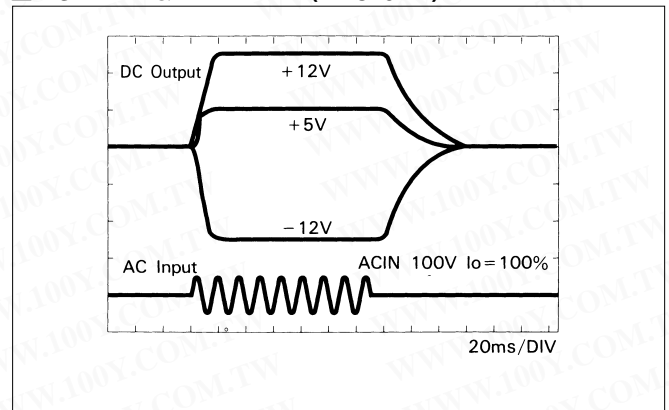
※ Weight: 250g or less.
 ※ Tolerance: ±1
 ※ Dimensions in mm.
 ※ Mounting torque : 0.49N·m (5.0 kgf·cm) max

Performance data

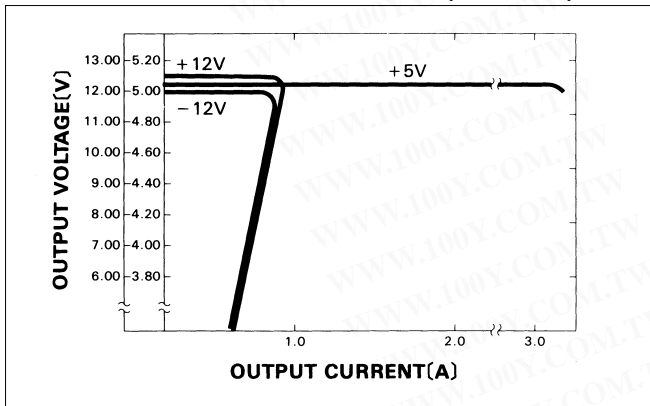
■ STATIC CHARACTERISTICS (PMC15E-1)



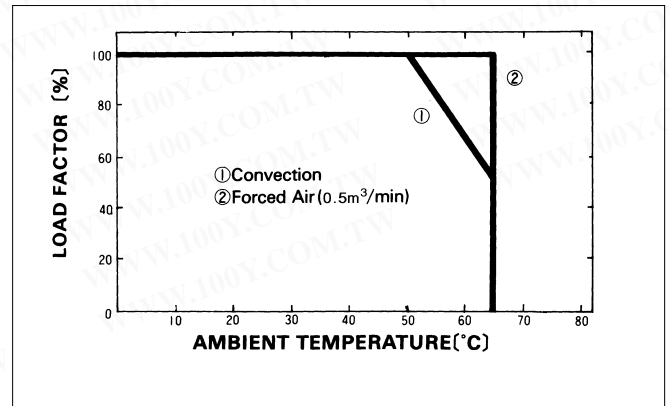
■ RISE TIME & FALL TIME (PMC15E-1)



■ OVERCURRENT CHARACTERISTICS (PMC15E-1)



■ DERATING CURVE



Basic Characteristics Data

Model	Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection	PCB/Pattern			Series/Parallel operation availability	
						Material	Single sided	Double sided	Series operation	Parallel operation
PMC15E	Flyback converter	50 - 300	0.4	250V 2A	Thermistor	CEM-3	Yes		*1	No
PMC30E	Flyback converter	50 - 300	0.8	250V 3A	Thermistor	CEM-1	Yes		*1	No
PMC50E	Flyback converter	70 - 380	1.4	250V 3A	Thermistor	CEM-1	Yes		*1	No
PMC75E	Forward converter	200	1.8	250V 5A	Triac	CEM-1	Yes		*1	No
PMC100E	Forward converter	200	2.4	250V 5A	Triac	FR-4		Yes	*1	No

*1 Please refer to Series/Parallel operation in the instruction manual.

* The switching frequency of single ended flyback method changes according to input voltage and load factor.

* The value of input current is at ACIN 100V and rated load.

PMC

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