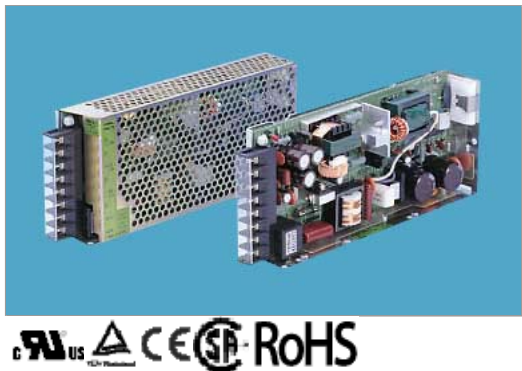


PMC75E



Features

- Universal input (AC85-264V)
- V1 isolated from V2 and V3
- Small and compact size
- PMC50E, 75E, 100E : AC85 - 132V/AC170 - 264V)
- Built-in Inrush Current Protection
- Stabilized output voltage (V1, V2, V3)
- Built-in Over Voltage Protection
- RoHS Compliant

Safety Agency Approvals

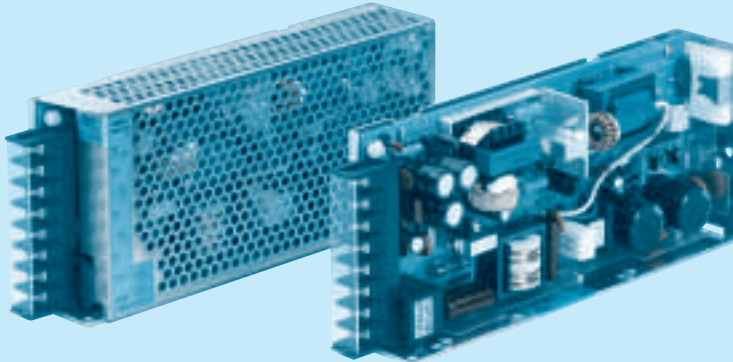
- Complies with DEN-AN
- UL1950
- CSA
- EN60950
- VDE0160

EMI Compliance

- FCC-B

3 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
PMC75E-1	DC 220 - 370 AC 85 - 264	76	-12 - 12V 0.5 - 8A
PMC75E-2	DC 220 - 370 AC 85 - 264	74.5	-15 - 15V 0.5 - 8A
PMC75E-4	DC 220 - 370 AC 85 - 264	74.4	-12 - 12V 0.5 - 6A



- 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
 J : Connector type
 N : with Cover

PMC

MODEL		PMC75E-1	PMC75E-2	PMC75E-4
DC OUTPUT	V1	+5V 8.0A	+5V 8.0A	+5V 6.0A
	V2	+12V 2.5A	+15V 1.8A	+12V 3.2A
	V3	-12V 0.5A	-15V 0.5A	-12V 0.5A

SPECIFICATIONS

	MODEL	PMC75E-1			PMC75E-2			PMC75E-4			
INPUT	VOLTAGE[V]		AC85 - 132 / 170 - 264 1ϕ (User-selectable) or DC220 - 370								
	CURRENT[A]	ACIN 100V	1.8typ (Io=100%) User-selectable								
		ACIN 200V	1.0typ (Io=100%) User-selectable								
	FREQUENCY[Hz]		47 - 440								
	EFFICIENCY[%]	ACIN 100V	75typ (Io=100%)								
		ACIN 200V	30typ (Io=100%)								
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15	+5	+12	-12
	CURRENT[A]		8	2.5	0.5	8	1.8	0.5	6	3.2	0.5
	MINIMUM CURRENT[A]		1.5	0	0	1.5	0	0	1.5	0	0
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max	20max	48max	48max
	LOAD REGULATION[mV]		40max	100max	150max	40max	120max	150max	40max	100max	150max
	RIPPLE[mVp-p]		80max	120max	120max	80max	120max	120max	80max	120max	120max
	RIPPLE NOISE[mVp-p]		120max	150max	150max	120max	150max	150max	120max	150max	150max
	TEMPERATURE REGULATION[mV] 0 to +50℃		50max	120max	350max	50max	150max	350max	50max	120max	350max
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)								
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed
	PROTECTION CIRCUIT	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
OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically									
ISOLATION	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating (+5V)								
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)								
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩmin (At Room Temperature)								
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +65℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max								
	STORAGE TEMP.,HUMID.AND ALTITUDE		-25 to +75℃, 20 - 95%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								
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
SAFETY AND NOISE REGULATIONS	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								

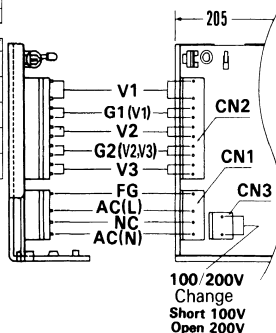
- * Series/Parallel operation with other model is not possible.
 * When units are operated with chassis and cover, derating is required.

External view

(PIN CONNECTION)

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

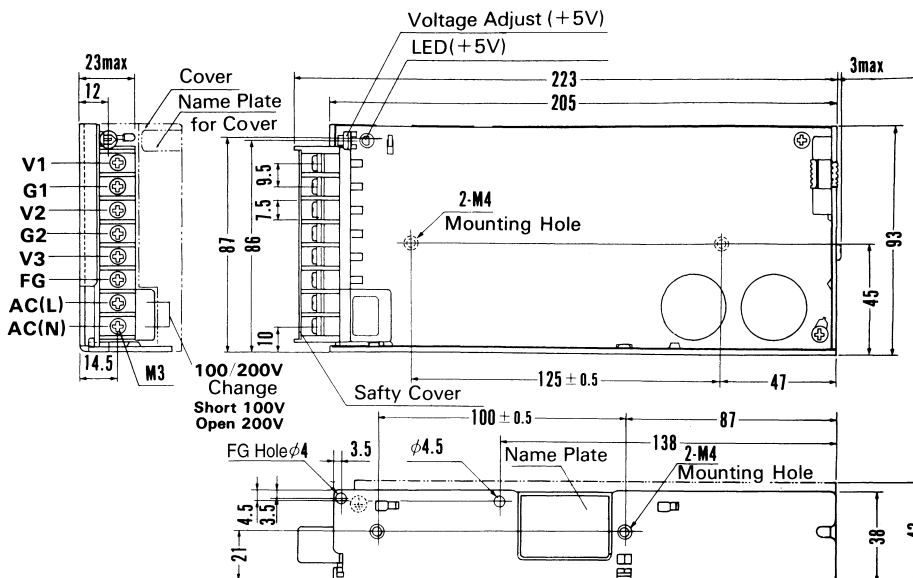
PIN NO.	OUTPUT
1	V1
2	G1
3	V2
4	G2
5	V3
6	G2
7	V3
8	FG
9	AC(L)
10	AC(N)



I/O Connector	Mating Connector	Terminal
CN1	5289-4A	5199-04
CN2	5277-10A	5196-10
CN3	5289-2A	5199-02

(Mfr: Molex)

Connector type



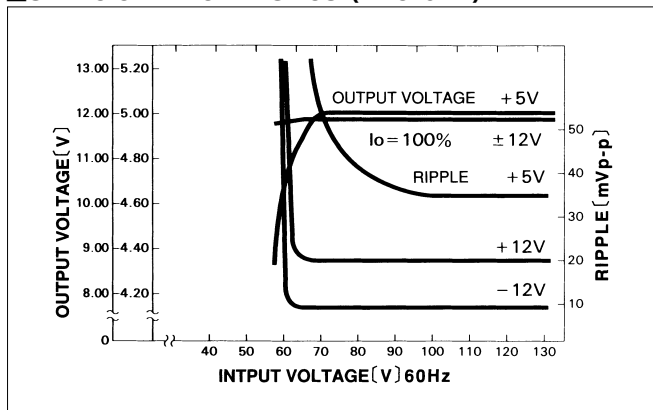
※V1 is isolated from V2 & V3.

※Weight: 600g or less. ※Cover is optional
 ※Tolerance: ± 1 ※Dimensions in mm
 ※Mounting torque: 1.2N·m (12.8kgf·cm) max

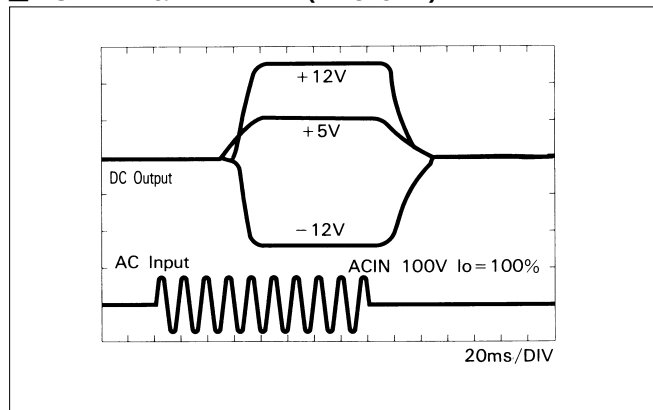
Barrier strip type

Performance data

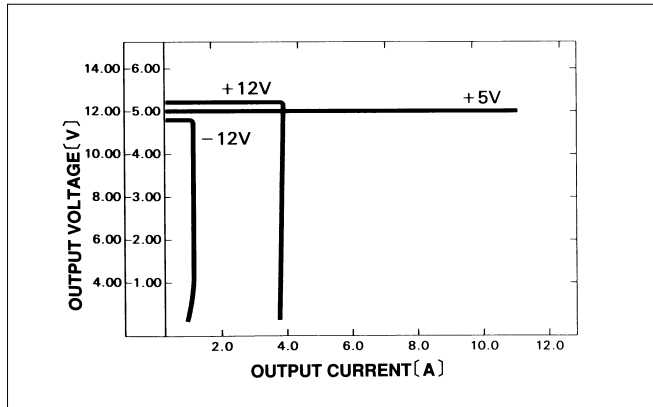
■STATIC CHARACTERISTICS (PMC75E-1)



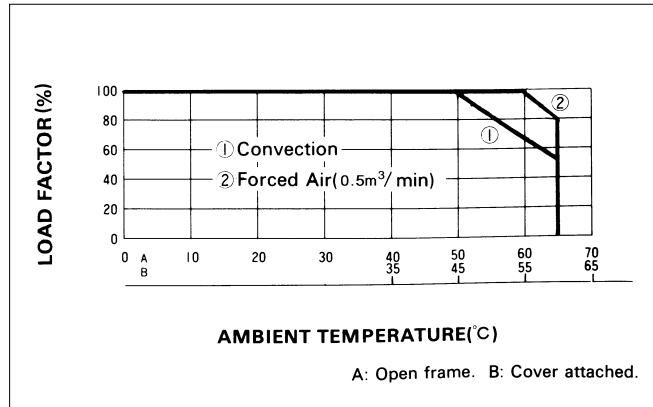
■RISE TIME & FALL TIME (PMC75E-1)

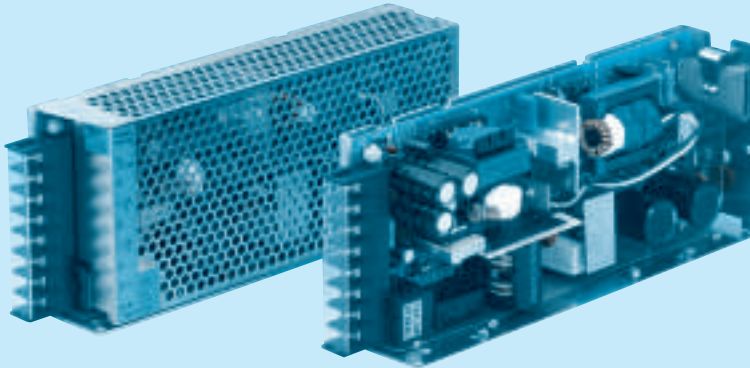


■OVERCURRENT CHARACTERISTICS (PMC75E-1)



■DERATING CURVE





- ① Series name
 ② Output wattage
 ③ UL recognized, TÜV approved, CSA certified
 : E
 ④ Output voltage combination
 ⑤ Optional
 G : Low leakage current
 J : Connector type
 N : with Cover

MODEL		PMC100E-1	PMC100E-2	PMC100E-4
DC OUTPUT	V1	+5V 13.0A	+5V 13.0A	+5V 8.0A
	V2	+12V 2.0A	+15V 1.5A	+12V 4.0A
	V3	-12V 1.0A	-15V 1.0A	-12V 1.0A

SPECIFICATIONS

	MODEL	PMC100E-1			PMC100E-2			PMC100E-4			
INPUT	VOLTAGE[V]		AC85 - 132 / 170 - 264 1ϕ (User-selectable) or DC220 - 370								
	CURRENT[A]	ACIN 100V	2.4typ (Io=100%) User-selectable								
		ACIN 200V	1.4typ (Io=100%) User-selectable								
	FREQUENCY[Hz]		47 - 440								
	EFFICIENCY[%]	ACIN 100V	75typ (Io=100%)								
		ACIN 200V	30typ (Io=100%)								
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15	+5	+12	-12
	CURRENT[A]		13	2	1	13	1.5	1	8	4	1
	MINIMUM CURRENT[A]		1.5	0	0	1.5	0	0	1.5	0	0
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max	20max	48max	48max
	LOAD REGULATION[mV]		40max	100max	150max	40max	120max	150max	40max	100max	150max
	RIPPLE[mVp-p]		80max	120max	120max	80max	120max	120max	80max	120max	120max
	RIPPLE NOISE[mVp-p]		120max	150max	150max	120max	150max	150max	120max	150max	150max
	TEMPERATURE REGULATION[mV] 0 to +50℃		50max	120max	350max	50max	150max	350max	50max	120max	350max
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)								
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed
	PROTECTION CIRCUIT	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
OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically									
OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating (+5V)									
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)								
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)								
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩmin (At Room Temperature)								
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +65℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)								
	STORAGE TEMP.,HUMID.AND ALTITUDE		-25 to +75℃, 20 - 95%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								
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis								
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, CSA1402C, EN60950-1, EN50178 Complies with IEC60950-1 and DEN-AN								
	CONDUCTED NOISE		Complies with FCC-B								

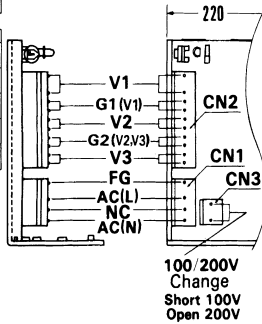
- * Series/Parallel operation with other model is not possible.
 * When units are operated with chassis and cover, derating is required.

External view

(PIN CONNECTION)

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

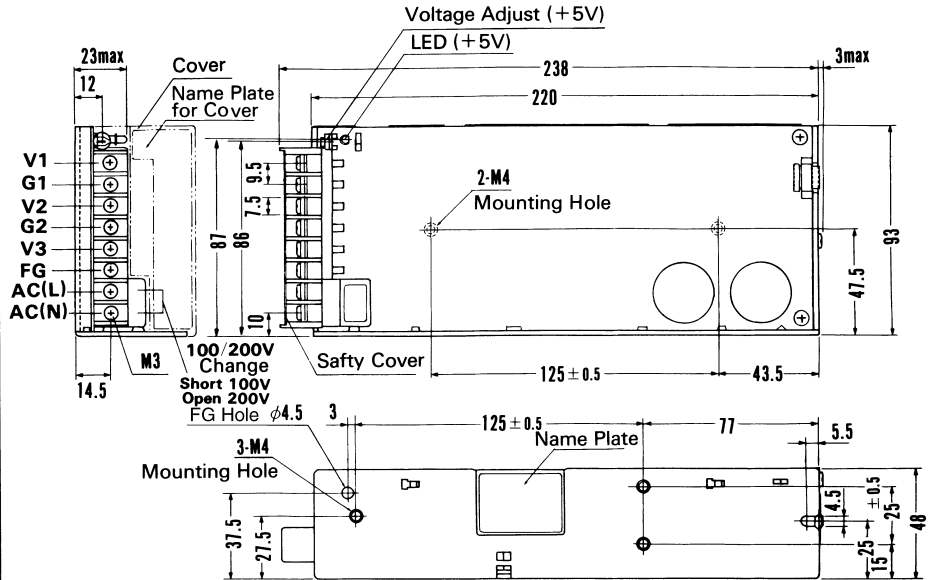
PIN NO.	OUTPUT
1	V1
2	G1
3	V2
4	G2
5	V3
6	G2
7	V3
8	G2
9	V3
10	V3



I/O Connector	Mating Connector	Terminal
CN1 5289-4A	5199-04	Chain : 5194PBT
CN2 5277-10A	5196-10	Loose : 5194PBT
CN3 5289-2A	5199-02	

(Mfr: Molex)

Connector type



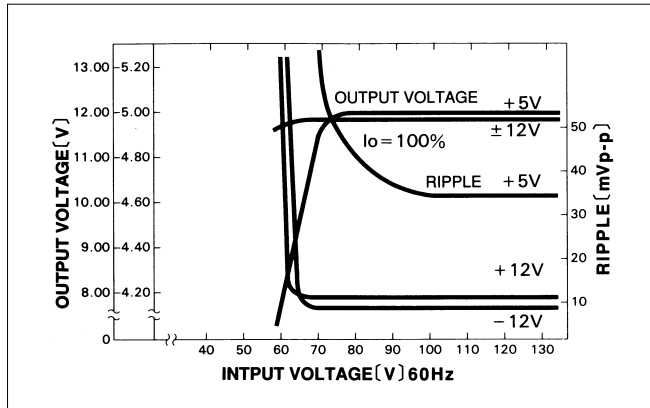
※ V1 is isolated from V2 & V3.

※ Weight: 750g or less. ※ Cover is optional
 ※ Tolerance: ±1 ※ Dimensions in mm.
 ※ Mounting torque : 1.2N·m (12.8kgf·cm) max

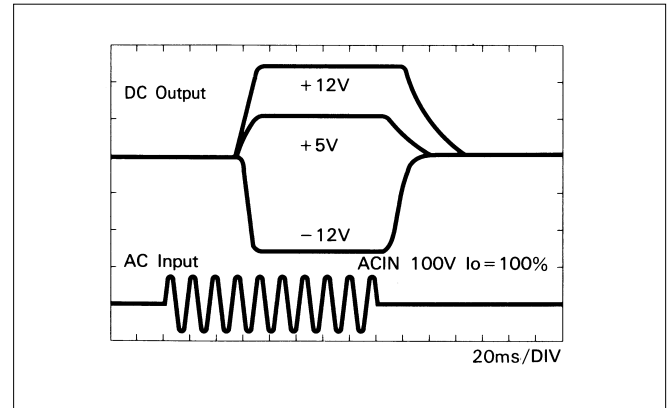
Barrier strip type

Performance data

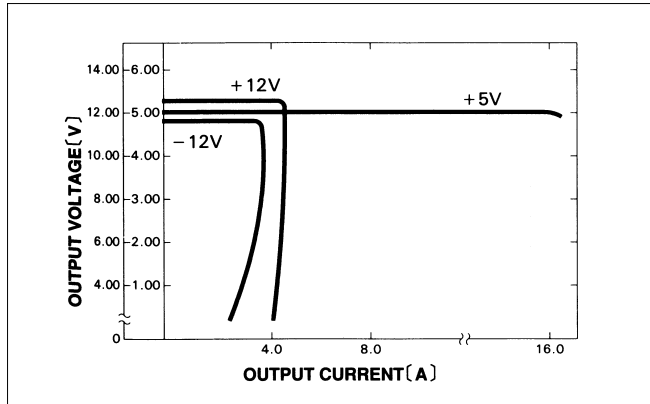
■ STATIC CHARACTERISTICS (PMC100E-1)



■ RISE TIME & FALL TIME (PMC100E-1)



■ OVERCURRENT CHARACTERISTICS (PMC100E-1)



■ DERATING CURVE

