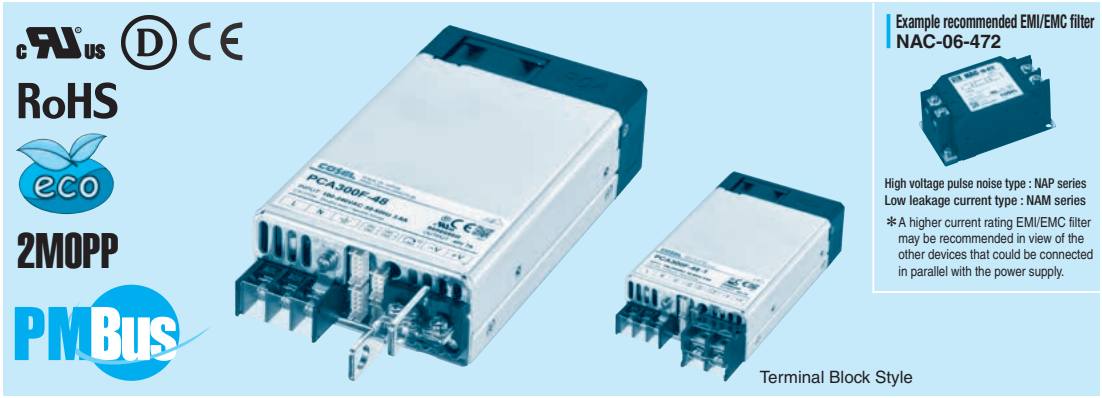
COSEL AC-DC Power Supplies Enclosed Type

PCA300F

Ordering information

PC	A	300	F	-5	-□
①	②	③	④	⑤	⑧



Example recommended EMI/EMC filter
NAC-06-472

High voltage pulse noise type : NAP series
Low leakage current type : NAM series

＊A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional ＊7
C :with Coating
G :Low leakage current
T :Terminal Block Style
I :with PMBus interface
F2 :Reverse air exhaust type
P3 :Master-slave Operation
W1 :Alarm function

For option details, refer to instruction manual 7.1.

＊Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	PCA300F-5	PCA300F-12	PCA300F-15	PCA300F-24	PCA300F-32	PCA300F-48
MAX OUTPUT WATTAGE[W]	300	324	330	336	320	336
DC OUTPUT	5V 60A	12V 27A	15V 22A	24V 14A	32V 10A	48V 7A

SPECIFICATIONS

	MODEL			PCA300F-5	PCA300F-12	PCA300F-15	PCA300F-24	PCA300F-32	PCA300F-48
INPUT	VOLTAGE		[VAC]	85 - 264 1φ					
			[VDC] ＊1	88 - 370					
	CURRENT[A]		ACIN 100V	3.8typ					
			ACIN 230V	1.6typ					
	FREQUENCY[Hz]			50/60 (45 - 66)					
	EFFICIENCY[%]	ACIN 100V	(Io=50%)	86typ	87typ	87typ	88typ	88typ	88typ
			(Io=100%)	87typ	88typ	88typ	89typ	89typ	89typ
		ACIN 230V	(Io=50%)	87typ	88typ	88typ	89typ	89typ	89typ
			(Io=100%)	89typ	90typ	90typ	91typ	91typ	91typ
	POWER FACTOR		ACIN 100V	0.98typ (Io=100%)					
			ACIN 230V	0.95typ (Io=100%)					
	INRUSH CURRENT[A]		ACIN 100V＊2	20/40 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)					
			ACIN 230V＊2	40/40 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)					
	LEAKAGE CURRENT[mA]			0.5max (ACIN 240V 60Hz, Io=100%, According to IEC60601-1)					
OUTPUT	VOLTAGE[V]			5	12	15	24	32	48
	CURRENT[A]			60	27	22	14	10	7
	LINE REGULATION[mV]			20max	48max	60max	96max	128max	192max
	LOAD REGULATION[mV]			40max	100max	120max	150max	150max	480max
	RIPPLE[mVp-p]	0 to +50℃ ＊3＊4		160max	240max	240max	240max	320max	480max
		-20 to 0℃ ＊3		280max	320max	320max	320max	420max	640max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊3＊4		240max	300max	300max	300max	400max	600max
		-20 to 0℃ ＊3		320max	360max	360max	360max	480max	720max
	TEMPERATURE REGULATION[mV]	0 to +50℃ ＊4		50max	120max	150max	240max	320max	480max
		-20 to +50℃ ＊4		75max	180max	180max	290max	400max	600max
	DRIFT[mV] ＊5			20max	48max	60max	96max	128max	192max
	START-UP TIME[ms]			700typ (ACIN 100/230V Io=100%)					
	HOLD-UP TIME[ms]			20typ (ACIN 230V Io=80%) / 16typ (ACIN 230V Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			3.00 to 6.00	7.20 to 14.40	9.00 to 18.00	14.40 to 28.80	19.20 to 38.40	28.80 to 57.60
	OUTPUT VOLTAGE SETTING[V]			5.00 to 5.05	12.00 to 12.12	15.00 to 15.15	24.00 to 24.24	32.00 to 32.32	48.00 to 48.48
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION			Works over 105% of rating (Recovers automatically, Hiccup overcurrent)					
	OVERVOLTAGE PROTECTION[V]			6.25 to 7.00	15.00 to 16.80	18.75 to 21.00	30.00 to 33.60	40.00 to 44.80	60.00 to 67.20
	REMOTE SENSING			Provided					
	REMOTE ON/OFF (RC)			Provided					
	DC_OK LAMP			LED (Blue)					
	ALARM LAMP			LED (Orange)					
	COMMUNICATION FUNCTION			Provided (Extended UART)					
ISOLATION	INPUT-OUTPUT			AC4,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 2MOPP					
	INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 1MOPP					
	OUTPUT-FG			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT - AUX · RC · PG · INFO · DS · ADDR0 · ADDR1 · ADDR2			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMIDITY.AND ALTITUDE			-20 to +70℃, 20 - 90%RH (Non condensing)					
	STORAGE TEMP.,HUMIDITY.AND ALTITUDE			-20 to +75℃, 20 - 90%RH (Non condensing)					
	VIBRATION			10 - 55Hz 19.6m/s² (2G) 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT			196.1m/s² (20G) 11ms, once each X, Y and Z axis					
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS			UL62368-1, EN62368-1, C-UL (equivalent to CAN/CSA-C22.2 No.62368-1), ANSI/AAMI ES60601-1, EN60601-1 3rd, C-UL (equivalent to CAN/CSA-C22.2 No.60601-1), Complies with IEC60601-1-2 4th Ed.					
	CONDUCTED NOISE			Complies with FCC Part15 classB, VCCI-B, CISPR32-B, EN55011-B, EN55032-B					
	HARMONIC ATTENUATOR ＊6			Complies with IEC61000-3-2 (class A)					

SPECIFICATIONS

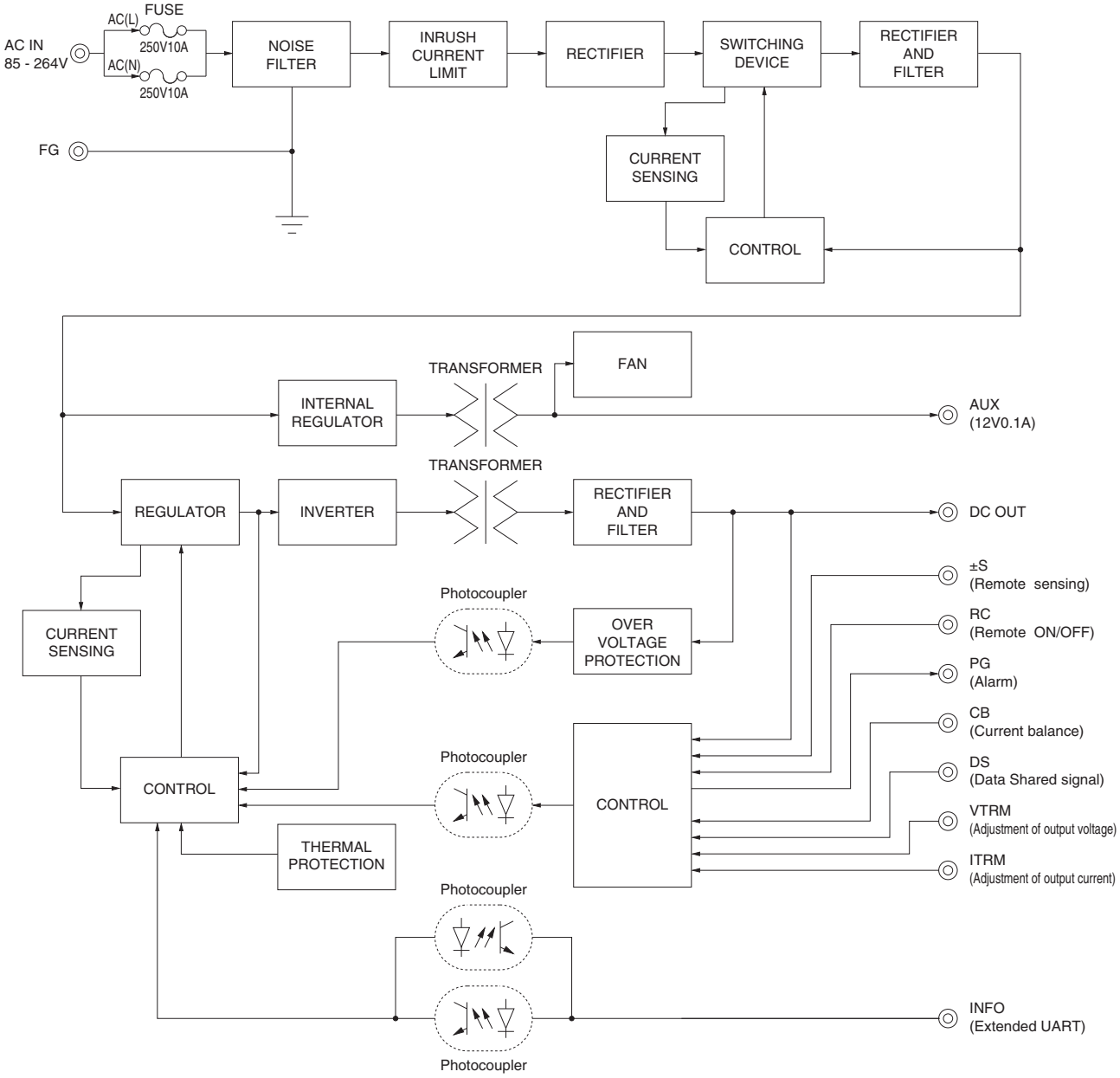
OTHERS	CASE SIZE/WEIGHT	89×41×152mm [3.50×1.61×5.98 inches] (without terminal block and screw) (W×H×D) / 840g max
	COOLING METHOD	Forced cooling (internal fan)

∗1 DC input safety agency approvals deleted.
∗2 The value is primary surge. The current of input surge to a built-in EMI/EMS Filter(0.2ms or less) is excluded.
∗3 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM103). Please refer to the instruction manual 2.2.
∗4 5V output product, the maximum temperature of 40℃.
∗5 Drift is the change in DC output for an eight hours period after a half-hour warm-up at 25℃.
∗6 Please contact us about another class.
∗7 The listed options may affect the published standard specifications. Please contact us for detailed product specifications and safety approvals.
∗ A sound may occur from power supply at pulse loading.

Features

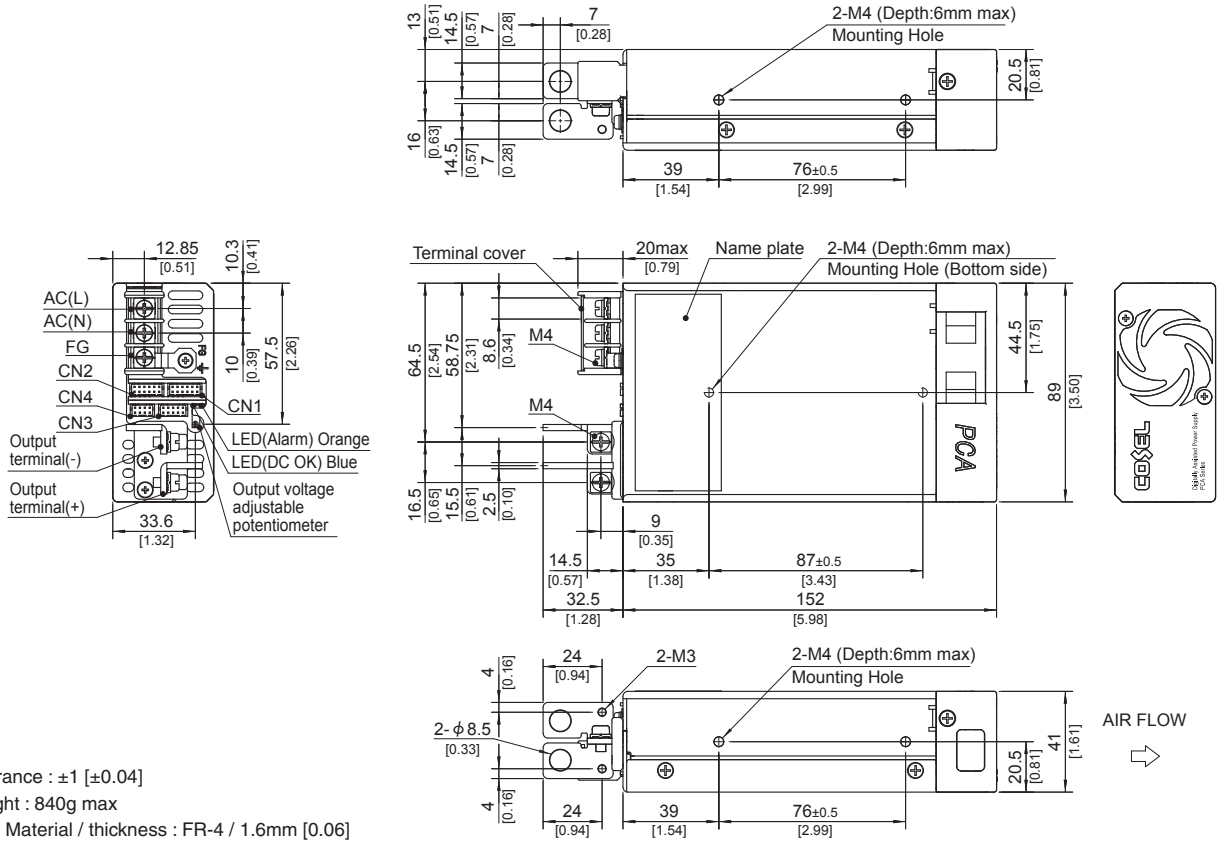
- Low profile (41mm, 1.61 inch = meet to 1U height)
- Universal input 85 - 264VAC
- DC input 88 - 370VDC possible
- For medical electric equipment (ANSI/AAMI ES60601-1, EN60601-1 3rd, IEC60601-1-2 4th Ed.)
- Medical Isolation Grade 2MOPP
- With AUX output 12V 0.1A (Voltage variable range 5 - 12V)
- Constant current regulation
- Output voltage can be varied to near 0V (Refer to item 3.6)
- With various alarms
- Parallel Operation / N+1 Parallel Redundancy Operation possible
- Monitoring function by communication and various setting values can be changed (Refer to item 3.11)

Block diagram



External view

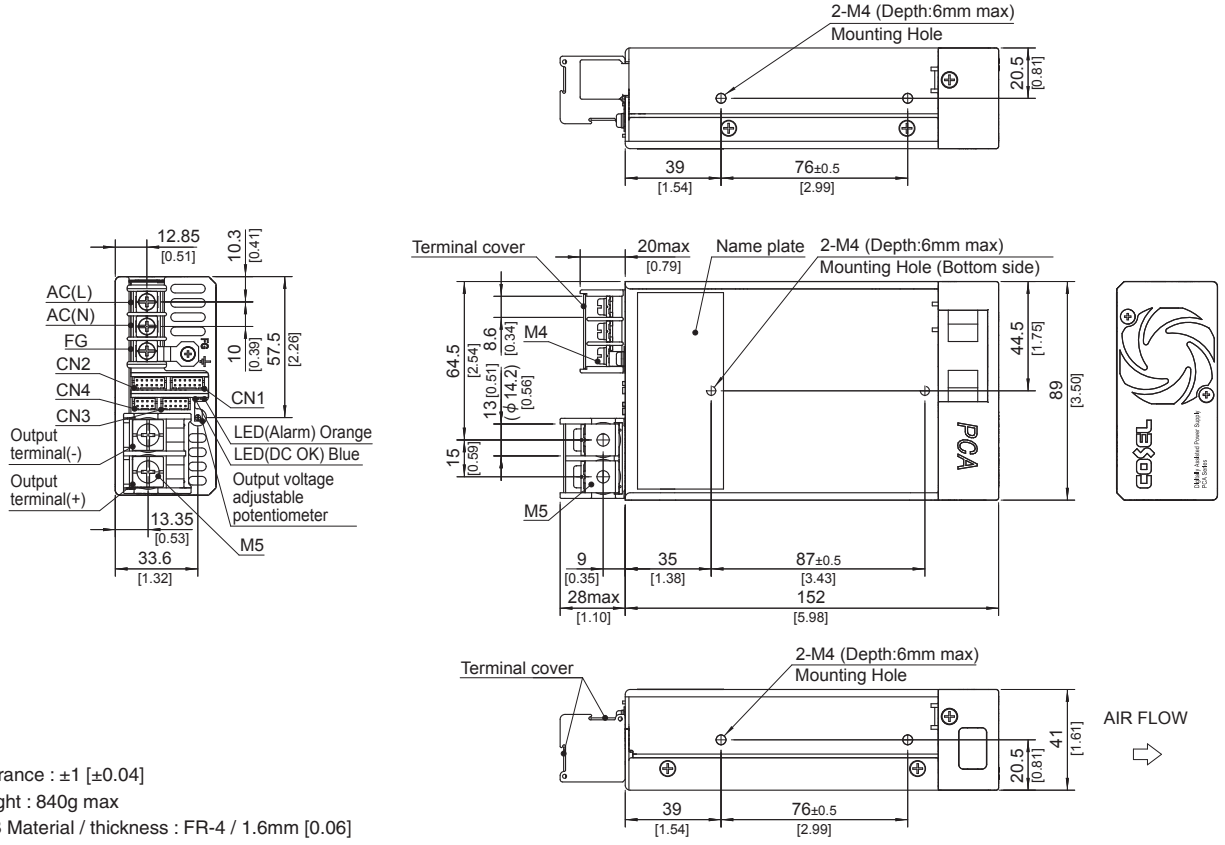
<PCA300F-□ (Bus Bar Style) >



※ Tolerance : ±1 [±0.04]
※ Weight : 840g max
※ PCB Material / thickness : FR-4 / 1.6mm [0.06]
※ Chassis Material : Aluminum
※ Fan cover Material : PBT
※ Dimensions in mm, [ ] = inches
※ Mounting torque : 1.2N·m max
※ Input and output terminal screw tightening torque
M3 0.6N·m max
M4 1.6N·m max
※ Please connect safety ground to FG terminal on the unit.

External view

<PCA300F-□-T (Terminal Block Style) >



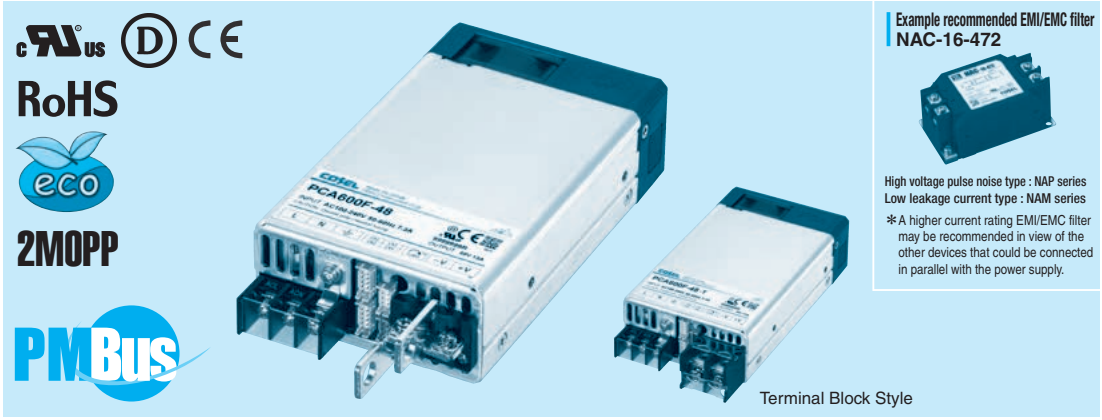
※ Tolerance : ±1 [±0.04]
※ Weight : 840g max
※ PCB Material / thickness : FR-4 / 1.6mm [0.06]
※ Chassis Material : Aluminum
※ Fan cover Material : PBT
※ Dimensions in mm, [ ] = inches
※ Mounting torque : 1.2N·m max
※ Input and output terminal screw tightening torque
M4 1.6N·m max
M5 2.5N·m max
※ Please connect safety ground to FG terminal on the unit.

COSEL AC-DC Power Supplies Enclosed Type

PCA600F

Ordering information

PC	A	600	F	-5	-□
①	②	③	④	⑤	⑧



Example recommended EMI/EMC filter
NAC-16-472

High voltage pulse noise type : NAP series
Low leakage current type : NAM series

＊A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional ＊7
C :with Coating
G :Low leakage current
T :Terminal Block Style (Only 12V, 15V, 24V, 32V and 48V)
I :with PMBus interface
F2 :Reverse air exhaust type
P3 :Master-slave Operation
W1 :Alarm function

For option details, refer to instruction manual 7.1.

＊Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	PCA600F-5	PCA600F-12	PCA600F-15	PCA600F-24	PCA600F-32	PCA600F-48
MAX OUTPUT WATTAGE[W]	600	636	645	648	640	624
DC OUTPUT	5V 120A	12V 53A	15V 43A	24V 27A	32V 20A	48V 13A

SPECIFICATIONS

	MODEL			PCA600F-5	PCA600F-12	PCA600F-15	PCA600F-24	PCA600F-32	PCA600F-48
INPUT	VOLTAGE		[VAC]	85 - 264 1 ϕ (Output derating is required at less than 90V. Refer to instruction manual 5.2.)					
			[VDC] ＊1	88 - 370 (Output derating is required at less than 110V.Refer to instruction manual 5.2.)					
	CURRENT[A]		ACIN 100V	7.3typ					
			ACIN 230V	3.2typ					
	FREQUENCY[Hz]			50/60 (45 - 66)					
	EFFICIENCY[%]	ACIN 100V	(Io=50%)	90typ	91typ	91typ	91typ	91typ	91typ
			(Io=100%)	89typ	90typ	90typ	91typ	91typ	91typ
		ACIN 230V	(Io=50%)	92typ	92typ	92typ	93typ	93typ	93typ
			(Io=100%)	91typ	92typ	92typ	93typ	93typ	93typ
	POWER FACTOR		ACIN 100V	0.98typ (Io=100%)					
			ACIN 230V	0.95typ (Io=100%)					
	INRUSH CURRENT[A]		ACIN 100V＊2	20/40 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)					
			ACIN 230V＊2	40/40 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)					
	LEAKAGE CURRENT[mA]			0.5max (ACIN 240V 60Hz, Io=100%, According to IEC60601-1)					
OUTPUT	VOLTAGE[V]			5	12	15	24	32	48
	CURRENT[A]			120	53	43	27	20	13
	LINE REGULATION[mV]			20max	48max	60max	96max	128max	192max
	LOAD REGULATION[mV]			40max	100max	120max	150max	150max	480max
	RIPPLE[mVp-p]	0 to +50℃	＊3＊4	160max	240max	240max	240max	320max	480max
		-20 to 0℃	＊3	280max	320max	320max	320max	420max	640max
	RIPPLE NOISE[mVp-p]	0 to +50℃	＊3＊4	240max	300max	300max	300max	400max	600max
		-20 to 0℃	＊3	320max	360max	360max	360max	480max	720max
	TEMPERATURE REGULATION[mV]	0 to +50℃	＊4	50max	120max	150max	240max	320max	480max
		-20 to +50℃	＊4	75max	180max	180max	290max	400max	600max
	DRIFT[mV]		＊5	20max	48max	60max	96max	128max	192max
	START-UP TIME[ms]			700typ (ACIN 100/230V Io=100%)					
	HOLD-UP TIME[ms]			20typ (ACIN 230V Io=80%) / 16typ (ACIN 230V Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			3.00 to 6.00	7.20 to 14.40	9.00 to 18.00	14.40 to 28.80	19.20 to 38.40	28.80 to 57.60
	OUTPUT VOLTAGE SETTING[V]			5.00 to 5.05	12.00 to 12.12	15.00 to 15.15	24.00 to 24.24	32.00 to 32.32	48.00 to 48.48
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION			Works over 105% of rating (Recovers automatically, Hiccup overcurrent)					
	OVERVOLTAGE PROTECTION[V]			6.25 to 7.00	15.00 to 16.80	18.75 to 21.00	30.00 to 33.60	40.00 to 44.80	60.00 to 67.20
	REMOTE SENSING			Provided					
	REMOTE ON/OFF (RC)			Provided					
	DC_OK LAMP			LED (Blue)					
	ALARM LAMP			LED (Orange)					
	COMMUNICATION FUNCTION			Provided (Extended UART)					
ISOLATION	INPUT-OUTPUT			AC4,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 2MOPP					
	INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 1MOPP					
	OUTPUT-FG			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT - AUX · RC · PG · INFO · DS · ADDR0 · ADDR1 · ADDR2			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMIDITY.AND ALTITUDE			-20 to +70℃, 20 - 90%RH (Non condensing)					
	STORAGE TEMP.,HUMIDITY.AND ALTITUDE			-20 to +75℃, 20 - 90%RH (Non condensing)					
	VIBRATION			10 - 55Hz 19.6m/s² (2G) 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT			196.1m/s² (20G) 11ms, once each X, Y and Z axis					
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS			UL62368-1, EN62368-1, C-UL (equivalent to CAN/CSA-C22.2 No.62368-1), ANSI/AAMI ES60601-1, EN60601-1 3rd, C-UL (equivalent to CAN/CSA-C22.2 No.60601-1), Complies with IEC60601-1-2 4th Ed.					
	CONDUCTED NOISE			Complies with FCC Part15 classB, VCCI-B, CISPR32-B, EN55011-B, EN55032-B					
	HARMONIC ATTENUATOR ＊6			Complies with IEC61000-3-2 (class A)					

SPECIFICATIONS

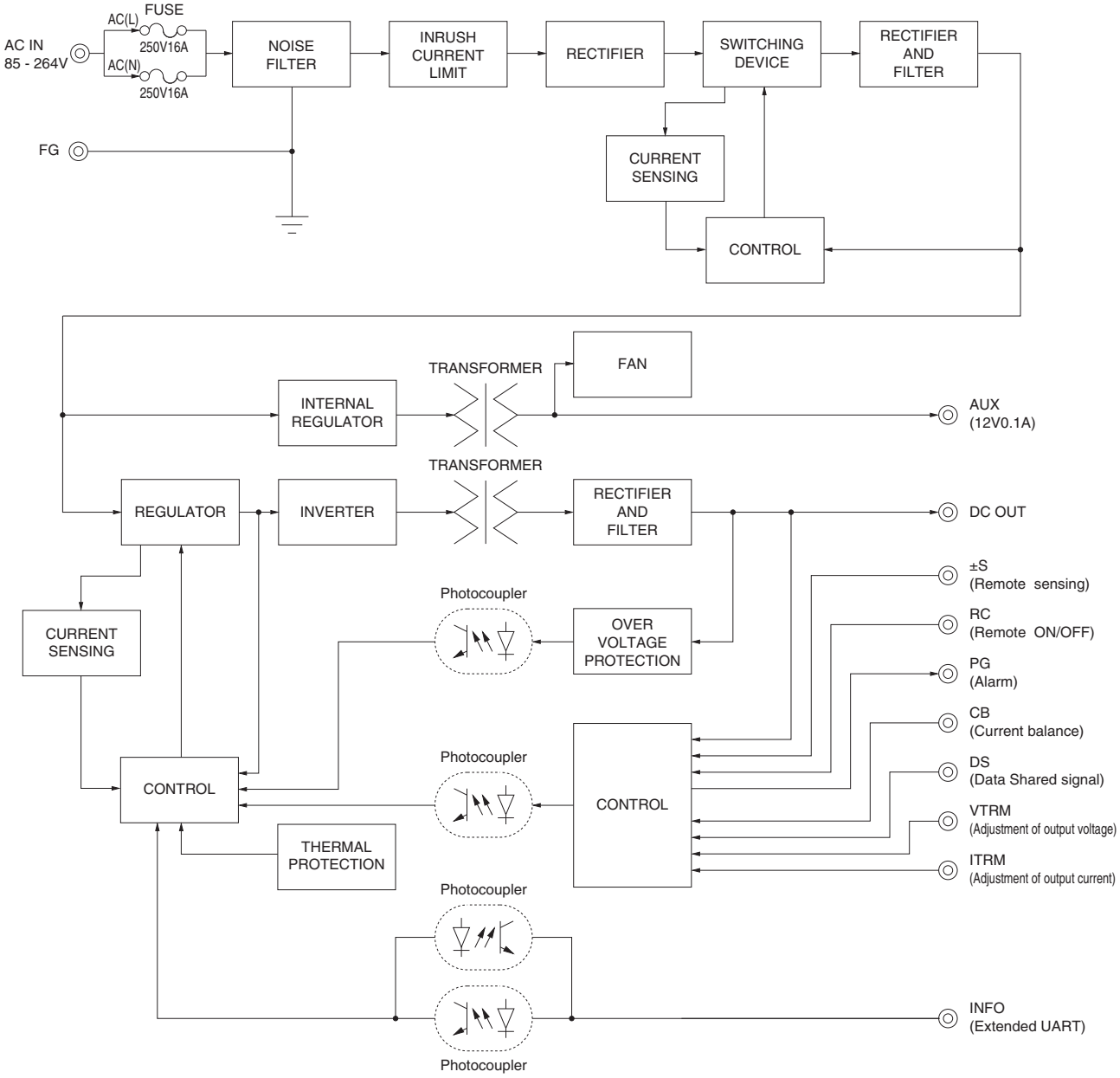
OTHERS	CASE SIZE/WEIGHT	89×41×152mm [3.50×1.61×5.98 inches] (without terminal block and screw) (W×H×D) / 840g max
	COOLING METHOD	Forced cooling (internal fan)

∗1 DC input safety agency approvals deleted.
∗2 The value is primary surge. The current of input surge to a built-in EMI/EMS Filter(0.2ms or less) is excluded.
∗3 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM103). Please refer to the instruction manual 2.2.
∗4 5V output product, the maximum temperature of 40℃.
∗5 Drift is the change in DC output for an eight hours period after a half-hour warm-up at 25℃.
∗6 Please contact us about another class.
∗7 The listed options may affect the published standard specifications. Please contact us for detailed product specifications and safety approvals.
∗ A sound may occur from power supply at pulse loading.

Features

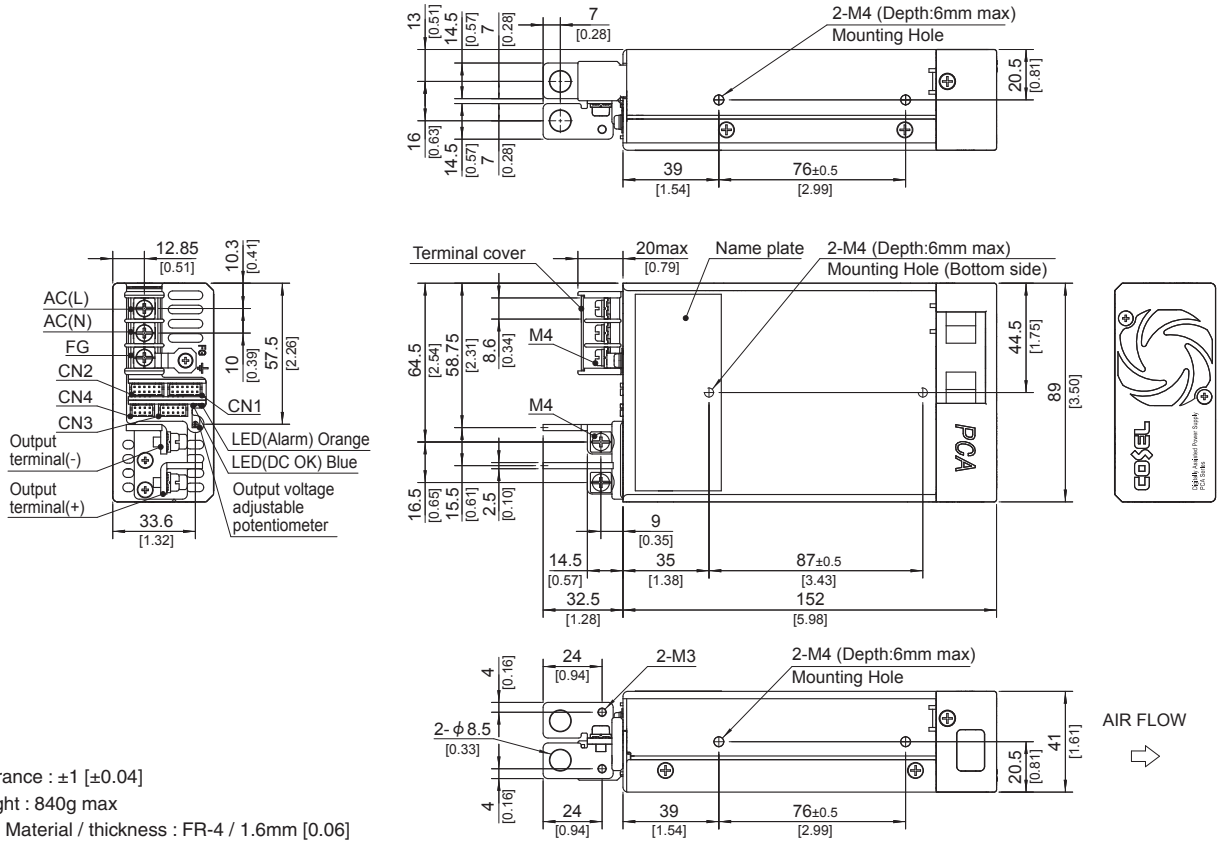
- Low profile (41mm, 1.61 inch = meet to 1U height)
- Universal input 85 - 264VAC (Refer to item 5.2, when using at 85 - 90VAC)
- DC input 88 - 370VDC possible (Refer to item 5.2, when using at 88 - 110VDC)
- For medical electric equipment (ANSI/AAMI ES60601-1, EN60601-1 3rd, IEC60601-1-2 4th Ed.)
- Medical Isolation Grade 2MOPP
- With AUX output 12V 0.1A (Voltage variable range 5 - 12V)
- Constant current regulation
- Output voltage can be varied to near 0V (Refer to item 3.6)
- With various alarms
- Parallel Operation / N+1 Parallel Redundancy Operation possible
- Monitoring function by communication and various setting values can be changed (Refer to item 3.11)

Block diagram



External view

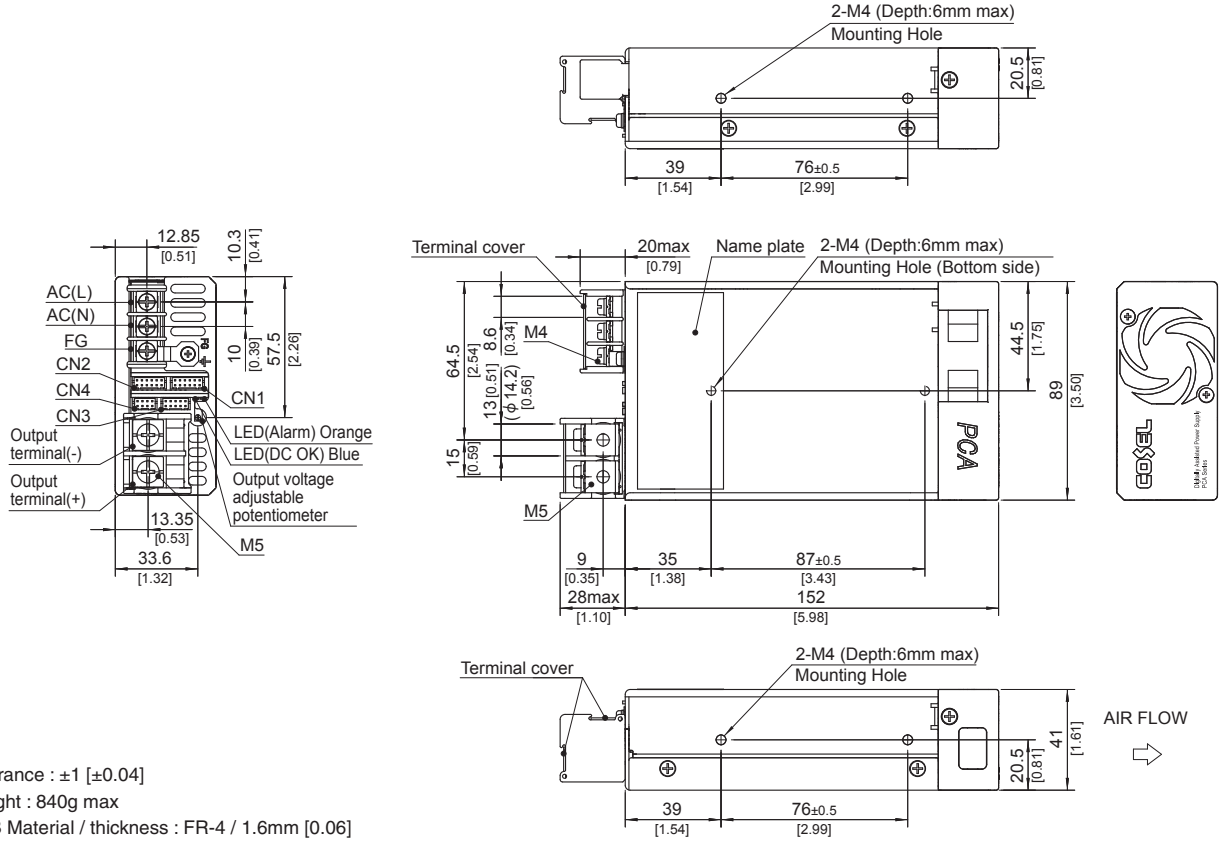
<PCA600F-□ (Bus Bar Style) >



※ Tolerance : ±1 [±0.04]
※ Weight : 840g max
※ PCB Material / thickness : FR-4 / 1.6mm [0.06]
※ Chassis Material : Aluminum
※ Fan cover Material : PBT
※ Dimensions in mm, [ ] = inches
※ Mounting torque : 1.2N·m max
※ Input and output terminal screw tightening torque
M3 0.6N·m max
M4 1.6N·m max
※ Please connect safety ground to FG terminal on the unit.

External view

<PCA600F-□-T (Terminal Block Style) >



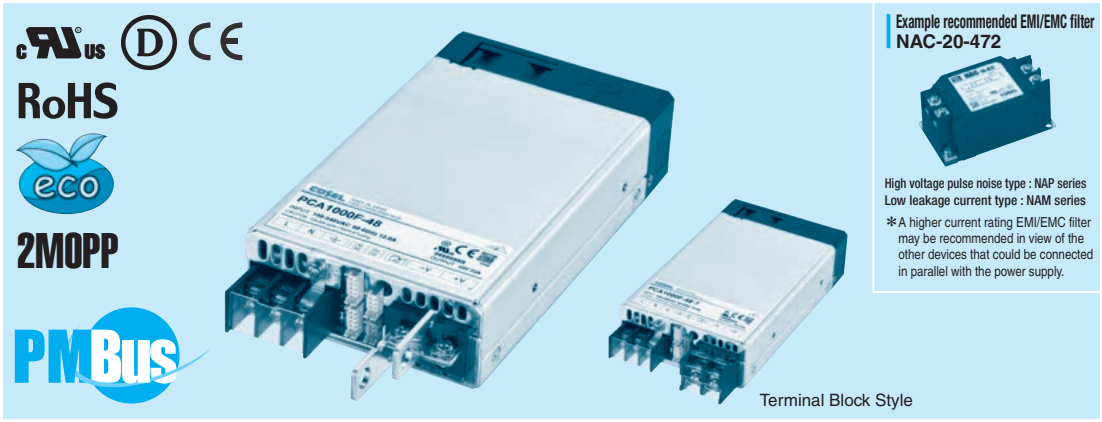
※ Tolerance : ±1 [±0.04]
※ Weight : 840g max
※ PCB Material / thickness : FR-4 / 1.6mm [0.06]
※ Chassis Material : Aluminum
※ Fan cover Material : PBT
※ Dimensions in mm, [ ] = inches
※ Mounting torque : 1.2N·m max
※ Input and output terminal screw tightening torque
M4 1.6N·m max
M5 2.5N·m max
※ Please connect safety ground to FG terminal on the unit.

COSEL AC-DC Power Supplies Enclosed Type

PCA1000F

Ordering information

PC	A	1000	F	-5	-□
①	②	③	④	⑤	⑧



Example recommended EMI/EMC filter
NAC-20-472

High voltage pulse noise type : NAP series
Low leakage current type : NAM series

＊A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional ＊6
C :with Coating
G :Low leakage current
T :Terminal Block Style (Only 24V, 32V and 48V)
I :with PMBus interface
F2:Reverse air exhaust type
P3:Master-slave Operation
W1:Alarm function
E1:EMI classB (Only 24V, 32V and 48V)

For option details, refer to instruction manual 7.1.

＊Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	PCA1000F-5	PCA1000F-12	PCA1000F-15	PCA1000F-24	PCA1000F-32	PCA1000F-48
MAX OUTPUT WATTAGE[W]	1000	1056	1050	1056	1056	1056
DC OUTPUT	5V 200A	12V 88A	15V 70A	24V 44A	32V 33A	48V 22A

SPECIFICATIONS

	MODEL			PCA1000F-5	PCA1000F-12	PCA1000F-15	PCA1000F-24	PCA1000F-32	PCA1000F-48
INPUT	VOLTAGE		[VAC]	85 - 264 1 ϕ (Output derating is required at less than 90V. Refer to instruction manual 5.2.)					
	CURRENT[A]		ACIN 100V	12.0typ					
			ACIN 230V	5.3typ					
	FREQUENCY[Hz]			50/60 (45 - 66)					
	EFFICIENCY[%]	ACIN 100V	(Io=50%)	90typ	91typ	91typ	91typ	91typ	91typ
			(Io=100%)	89typ	90typ	90typ	91typ	91typ	91typ
		ACIN 230V	(Io=50%)	92typ	92typ	92typ	93typ	93typ	93typ
			(Io=100%)	91typ	92typ	92typ	93typ	93typ	93typ
	POWER FACTOR		ACIN 100V	0.98typ (Io=100%)					
			ACIN 230V	0.95typ (Io=100%)					
	INRUSH CURRENT[A]		ACIN 100V＊1	20/40 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)					
			ACIN 230V＊1	40/40 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)					
	LEAKAGE CURRENT[mA]			0.5max (ACIN 240V 60Hz, Io=100%, According to IEC60601-1)					
OUTPUT	VOLTAGE[V]			5	12	15	24	32	48
	CURRENT[A]			200	88	70	44	33	22
	LINE REGULATION[mV]			20max	48max	60max	96max	128max	192max
	LOAD REGULATION[mV]			40max	100max	120max	150max	150max	480max
	RIPPLE[mVp-p]		0 to +50℃ ＊2＊3	160max	240max	240max	240max	320max	480max
			-20 to 0℃ ＊2	280max	320max	320max	320max	420max	640max
	RIPPLE NOISE[mVp-p]		0 to +50℃ ＊2＊3	240max	300max	300max	300max	400max	600max
			-20 to 0℃ ＊2	320max	360max	360max	360max	480max	720max
	TEMPERATURE REGULATION[mV]		0 to +50℃ ＊3	50max	120max	150max	240max	320max	480max
			-20 to +50℃ ＊3	75max	180max	180max	290max	400max	600max
	DRIFT[mV]		＊4	20max	48max	60max	96max	128max	192max
	START-UP TIME[ms]			700typ (ACIN 100/230V Io=100%)					
	HOLD-UP TIME[ms]			20typ (ACIN 230V Io=80%) / 16typ (ACIN 230V Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			3.00 to 6.00	7.20 to 14.40	9.00 to 18.00	14.40 to 28.80	19.20 to 38.40	28.80 to 57.60
	OUTPUT VOLTAGE SETTING[V]			5.00 to 5.05	12.00 to 12.12	15.00 to 15.15	24.00 to 24.24	32.00 to 32.32	48.00 to 48.48
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION			Works over 105% of rating (Recovers automatically, Hiccup overcurrent)					
	OVERVOLTAGE PROTECTION[V]			6.25 to 7.00	15.00 to 16.80	18.75 to 21.00	30.00 to 33.60	40.00 to 44.80	60.00 to 67.20
	REMOTE SENSING			Provided					
	REMOTE ON/OFF (RC)			Provided					
	DC_OK LAMP			LED (Blue)					
	ALARM LAMP			LED (Orange)					
	COMMUNICATION FUNCTION			Provided (Extended UART)					
ISOLATION	INPUT-OUTPUT			AC4,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 2MOPP					
	INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 1MOPP					
	OUTPUT-FG			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT - AUX · RC · PG · INFO · DS · ADDR0 · ADDR1 · ADDR2			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMIDITY.AND ALTITUDE			-20 to +70℃, 20 - 90%RH (Non condensing)					
	STORAGE TEMP.,HUMIDITY.AND ALTITUDE			-20 to +75℃, 20 - 90%RH (Non condensing)					
	VIBRATION			10 - 55Hz 19.6m/s² (2G) 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT			196.1m/s² (20G) 11ms, once each X, Y and Z axis					
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS			UL62368-1, EN62368-1, C-UL (equivalent to CAN/CSA-C22.2 No.62368-1), ANSI/AAMI ES60601-1, EN60601-1 3rd, C-UL (equivalent to CAN/CSA-C22.2 No.60601-1), Complies with IEC60601-1-2 4th Ed.					
	CONDUCTED NOISE			Complies with FCC Part15 classA, VCCI-A, CISPR32-A, EN55011-A, EN55032-A					
	HARMONIC ATTENUATOR ＊5			Complies with IEC61000-3-2 (class A)					

SPECIFICATIONS

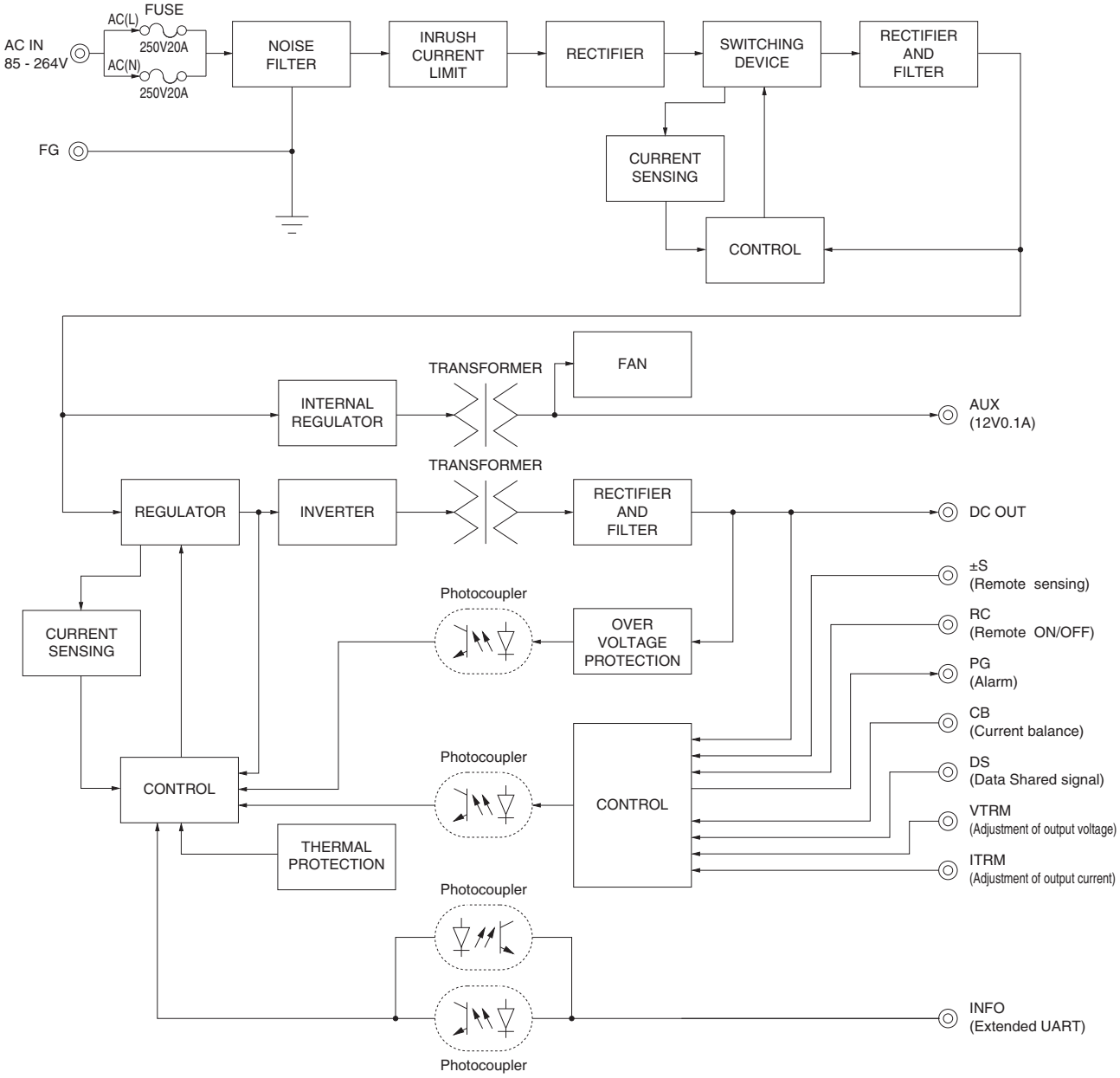
OTHERS	CASE SIZE/WEIGHT	102×41×178mm [4.02×1.61×7.01 inches] (without terminal block and screw) (W×H×D) / 1.2kg max
	COOLING METHOD	Forced cooling (internal fan)

∗1 The value is primary surge. The current of input surge to a built-in EMI/EMS Filter(0.2ms or less) is excluded.
∗2 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM103). Please refer to the instruction manual 2.2.
∗3 5V, 12V, 15V output product, the maximum temperature of 40℃.
∗4 Drift is the change in DC output for an eight hours period after a half-hour warm-up at 25℃.
∗5 Please contact us about another class.
∗6 The listed options may affect the published standard specifications. Please contact us for detailed product specifications and safety approvals.
∗ A sound may occur from power supply at pulse loading.

Features

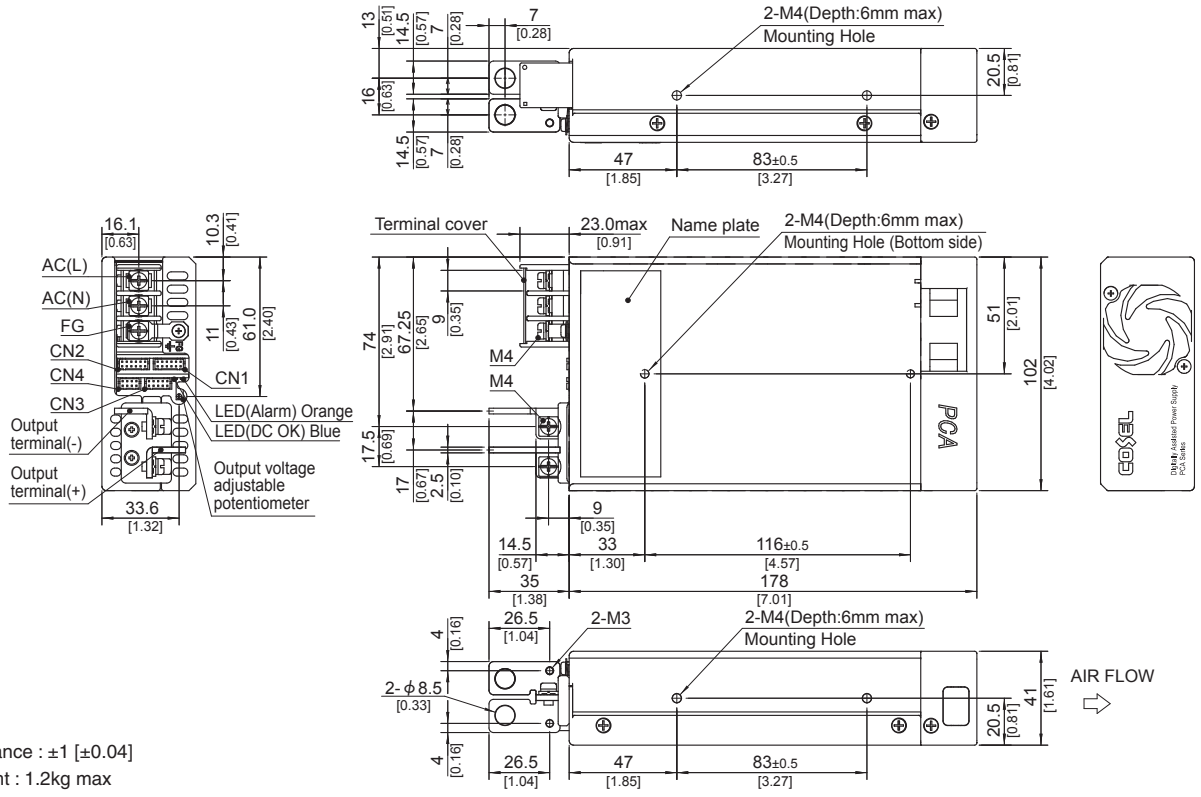
- Low profile (41mm, 1.61 inch = meet to 1U height)
- Universal input 85 - 264VAC (Refer to item 5.2, when using at 85 - 90VAC)
- For medical electric equipment (ANSI/AAMI ES60601-1, EN60601-1 3rd, IEC60601-1-2 4th Ed.)
- Medical Isolation Grade 2MOPP
- With AUX output 12V 0.1A (Voltage variable range 5 - 12V)
- Constant current regulation
- Output voltage can be varied to near 0V (Refer to item 3.6)
- With various alarms
- Parallel Operation / N+1 Parallel Redundancy Operation possible
- Monitoring function by communication and various setting values can be changed (Refer to item 3.11)

Block diagram



External view

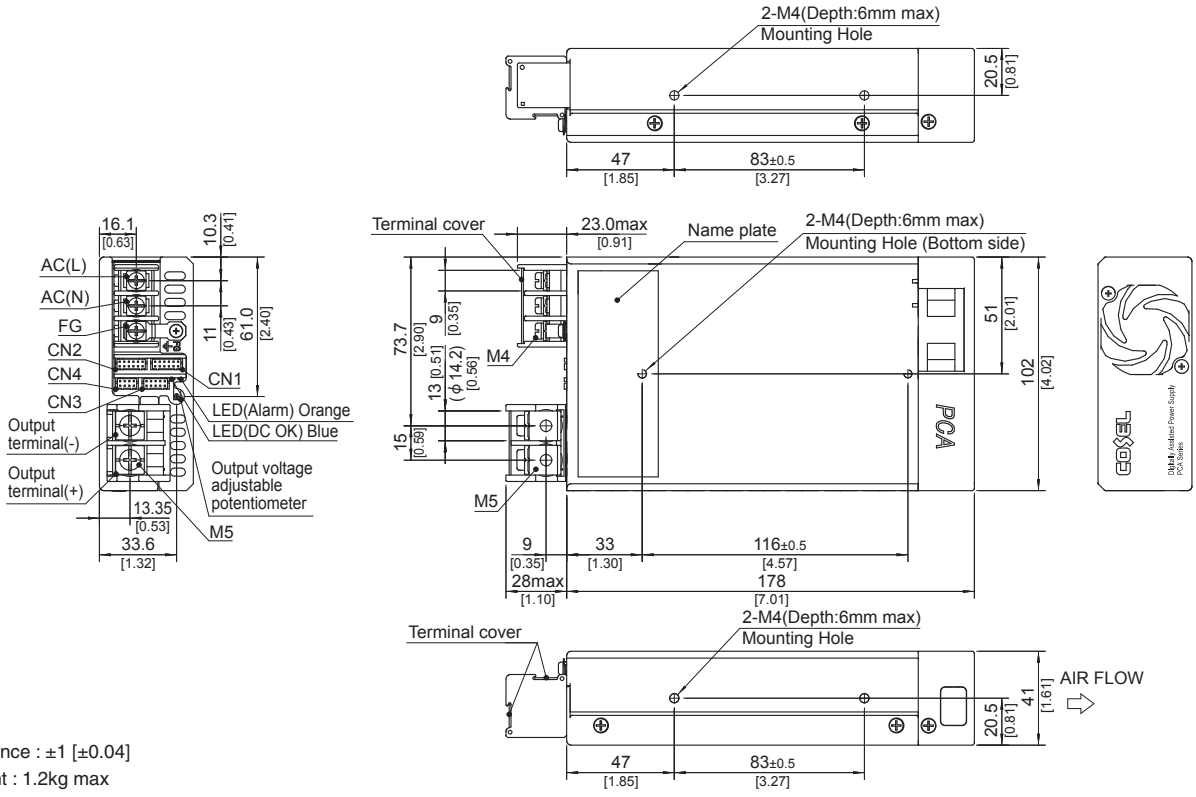
<PCA1000F-□ (Bus Bar Style) >



※ Tolerance : ±1 [±0.04]
※ Weight : 1.2kg max
※ PCB Material / thickness : FR-4 / 1.6mm [0.06]
※ Chassis Material : Aluminum
※ Fan cover Material : PBT
※ Dimensions in mm, [ ] = inches
※ Mounting torque : 1.2N·m max
※ Input and output terminal screw tightening torque
M3 0.6N·m max
M4 1.6N·m max
※ Please connect safety ground to FG terminal on the unit.

External view

<PCA1000F-□-T (Terminal Block Style) >



※ Tolerance : ±1 [±0.04]
※ Weight : 1.2kg max
※ PCB Material / thickness : FR-4 / 1.6mm [0.06]
※ Chassis Material : Aluminum
※ Fan cover Material : PBT
※ Dimensions in mm, [ ] = inches
※ Mounting torque : 1.2N·m max
※ Input and output terminal screw tightening torque
M4 1.6N·m max
M5 2.5N·m max
※ Please connect safety ground to FG terminal on the unit.

Mouser Electronics

Authorized Distributor

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Cosel:

PCA600F-15-TP2 PCA600F-5-P2 PCA600F-12-TP2 PCA600F-12-P2 PCA600F-15-P2 PCA600F-24-P2 PCA600F-24-TP2 PCA600F-32-P2 PCA600F-32-TP2 PCA600F-48-TP2 PCA600F-48-P2 PCA600F-5-TP2 PCA600F-5 PCA600F-24-T PCA600F-32 PCA600F-24 PCA600F-12-T PCA600F-32-T PCA600F-15 PCA600F-15-T PCA600F-48 PCA600F-12 PCA600F-48-T PCA1000F-24 PCA1000F-32 PCA1000F-5 PCA1000F-48-T PCA1000F-32-T PCA1000F-24-T PCA1000F-48 PCA1000F-12 PCA1000F-15 PCA1000F-12-C PCA1000F-12-F2 PCA1000F-12-G PCA1000F-12-P3 PCA300F-5 PCA300F-5-T PCA300F-24 PCA300F-24-T PCA300F-32 PCA300F-32-T PCA300F-48 PCA300F-48-T PCA1000F-5-P3 PCA1000F-5-W1 PCA300F-12 PCA300F-12-T PCA300F-15 PCA300F-15-T PCA1000F-48-G PCA1000F-48-P3 PCA1000F-48-W1 PCA1000F-5-C PCA1000F-5-F2 PCA1000F-5-G PCA1000F-32-F2 PCA1000F-32-G PCA1000F-32-P3 PCA1000F-32-W1 PCA1000F-48-C PCA1000F-48-F2 PCA1000F-24-C PCA1000F-24-F2 PCA1000F-24-G PCA1000F-24-P3 PCA1000F-24-W1 PCA1000F-32-C PCA1000F-12-W1 PCA1000F-15-C PCA1000F-15-F2 PCA1000F-15-G PCA1000F-15-P3 PCA1000F-15-W1 PCA300F-24-F2 PCA300F-5-P3 PCA300F-5-W1 PCA300F-12-W1 PCA300F-48-G PCA300F-32-P3 PCA300F-5-G PCA300F-48-P3 PCA300F-15-W1 PCA300F-12-G PCA300F-15-F2 PCA300F-24-G PCA300F-15-G PCA300F-48-F2 PCA300F-12-F2 PCA300F-32-G PCA300F-32-W1 PCA300F-32-F2 PCA300F-15-P3 PCA300F-5-F2 PCA300F-24-W1 PCA300F-24-P3 PCA300F-12-P3 PCA300F-48-W1 PCA1000F-32-I PCA1000F-48-I

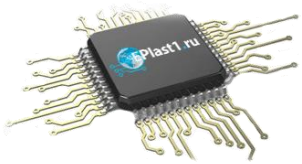
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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