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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Ordering information

PCA600F

600



①Series name ②Single output ③Output wattage ④Universal input

⑤Output voltage

⑥ Optional *7 T : Terminal Block Style I :with PMBus interface

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		
	VOLTAGE		[VAC]	85 - 264 1 φ (Ou	tput derating is req	uired at less than 9	90V. Refer to instruc	ction manual 5.2.)			
INPUT	VOLIAGE		[VDC] *1	88 - 370 (Output derating is required at less than 110V.Refer to instruction manual 5.2.)							
	OUDDENITIAL		ACIN 100V	7.3typ							
	CURRENT[A]		ACIN 230V	3.2typ							
	FREQUENCY[Hz]			50/60 (45 - 66)							
	_		(lo=50%)	90typ	91typ	91typ	91typ	91typ	91typ		
	EFFICIENCY[%]	ACIN 100V	(lo=100%)	89typ	90typ	90typ	91typ	91typ	91typ		
			(lo=50%)	92typ	92typ	92typ	93typ	93typ	93typ		
			(lo=100%)	91typ	92typ	92typ	93typ	93typ	93typ		
			ACIN 100V	0.98typ (lo=100%)		1	1				
	POWER FACTOR		ACIN 230V	0.95typ (Io=100%)							
			ACIN 100V*2	20/40 typ (lo=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)							
	INBUSH CURRENTIAL		ACIN 230V*2	40/40 typ (lo=100%) (Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)							
	LEAKAGE CURRENT[mA]			0.5max (ACIN 240V 60Hz, lo=100%, According to IEC60601-1)							
	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 REGULA]	40max	100max	120max	150max	150max	480max		
	LOAD IILGOLATION[IIIV]		0 to +50°C *3*4	160max	240max	240max	240max	320max	480max		
	RIPPLE[mVp-p]	-20 to 0°C *3	280max	320max	320max	320max	420max	640max		
			0 to +50°C *3*4	240max	300max	300max	300max	400max	600max		
OUTPUT	RIPPLE NOISE[mVp-p]	-20 to 0°C *3	320max	360max	360max	360max	480max	720max			
3011 01			0 to +50°C *4	50max	120max	150max	240max	320max	480max		
	TEMPERATURE REGULATION[mV]	LATION[mV]	-20 to +50°C *4	75max	180max	180max	290max	400max	600max		
	DRIFT[mV]		*5	20max	48max	60max	96max	128max	192max		
	• •										
	START-UP TIME[ms] HOLD-UP TIME[ms]			700typ (ACIN 100/230V lo=100%) 20typ (ACIN 230V lo=80%) / 16typ (ACIN 230V lo=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 57.6		
	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 48.4 Works over 105% of rating (Recovers automatically, Intermittent overcurrent)							
	OVERCURRENT PROTECTION			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 67.2		
	OVERVOLTAGE PROTECTION[V]				15.00 10 16.60	16.75 10 21.00	30.00 10 33.60	40.00 10 44.60	60.00 10 67.2		
PROTECTION CIRCUIT AND	REMOTE SENSING			Provided							
OTHERS	REMOTE ON/OFF (RC)			Provided LED (Rho)							
JIIILIIG	DC_OK LAMP			LED (Blue) LED (Orange)							
	ALARM LAMP			(0 /							
	COMMUNICATION FUNCTION			Provided (Extended UART) ACA 000V 1 minute Cutoff current 10mA DC500V 50MO min (At Room Temporature) 2MORP							
	INPUT-OUTPUT			AC4,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) 2MOPP							
SOLATION	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)							
	OPERATING TEMP.,HUMIDITY.AND ALTITUDE			-20 to +70°C, 20 - 90%RH (Non condensing)							
ENVIRONMENT	STORAGE TEMP.,HUMIDITY.AND ALTITUDE			-20 to +75°C, 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	AGENCY APPROVALS CONDUCTED NOISE			UL60950-1, C-UL (CSA60950-1), EN60950-1, ANSI/AAMI ES60601-1, EN60601-1 3rd, Complies with IEC60601-1-2 4th E							
AND NOISE				Complies with FCC Part15 classB, VCCI-B, CISPR32-B, EN55011-B, EN55032-B							
REGULATIONS	HARMONIC AT	TENUATO	R *6	Complies with IE	C61000-3-2 (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).
- *4 5V output product, the maximum temperature of 40℃.

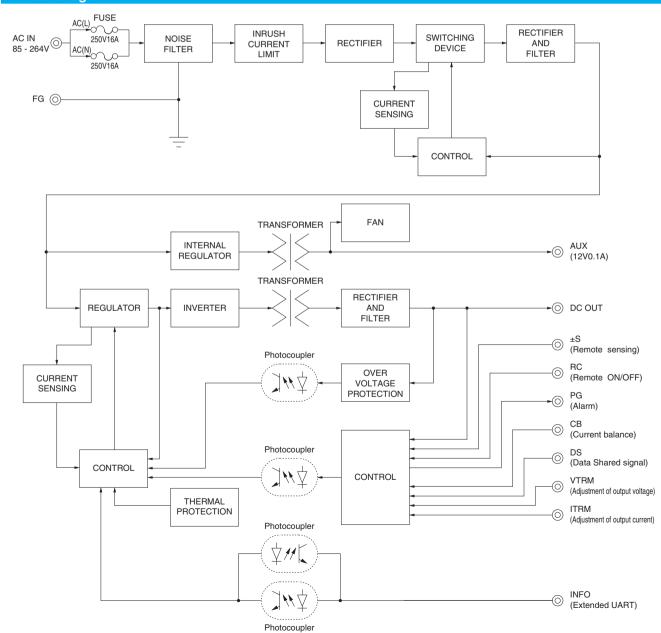
- *5 Drift is the change in DC output for an eight hours period after a half-hour warm-up at 25℃.
- Please contact us about another class
- The listed options may affect the published standard specifications. Please contact us for detailed product specifications and safety approvals.
- A sound may occur 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)

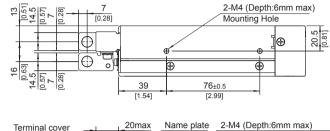
Block diagram

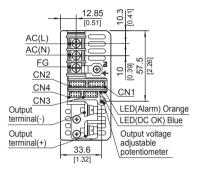


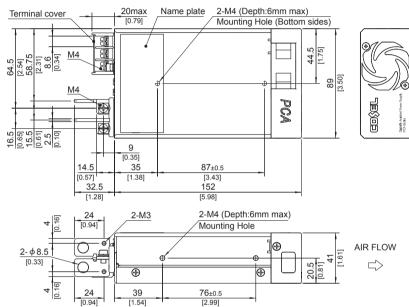


External view

<PCA600F (Bus Bar Style) >







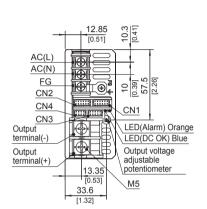
- % Tolerance : ± 1 [± 0.04]
- % Weight: 840g max
- \frak{W} PCB Material / thickness : FR-4 / 1.6mm [0.06]
- Chassis Material : Aluminum
- ※ Fan cover Material : PBT
- Dimensions in mm, [] = inches
 Manualization to a server of ON and a server
- $\ensuremath{\,\mathbb{X}\,}$ Input and output terminal screw tightening torque

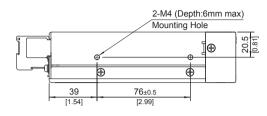
M3 0.6N·m max M4 1.6N·m max

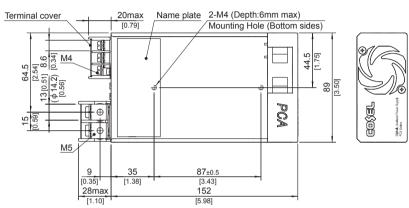


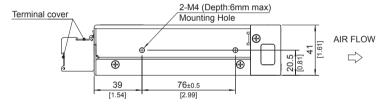
External view

<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

 $\ensuremath{\mathbb{X}}$ Please connect safety ground to FG terminal on the unit.