



## PCA ProComponent Amplifiers

- 2x50W, 2x100W, 4x50W rms\*
- Reinforced Class AB design to ensure solid performance and reliability
- Big heat sinks for increased heat dissipation
- Huge gold plated terminals for large gauge connections
- Wide range of input voltage 0.3–6.0 Vrms
- 2 ohm output stable (unbridged)
- Bass boost
- Protection LED
- Continuously variable HP/LP filters (50–250Hz)

\*"Real power" per CEA 2006 amplifier power test standards.



 **BLAUPUNKT**

The advantage in your car.

PCA Amplifiers				
NEW MODEL	Number	PCA250	PCA2100	PCA450
PREVIOUS MODEL / REFERENCE MODEL	Dealer availability	MAY 2003	MAY 2003	MAY 2003
DESCRIPTION (max usable power, best case)	Number	N/A	N/A	N/A
CLASS	ch / max power	2 ch, 150W rms	2 ch., 300W rms	4 ch., 300W rms
TYPE	AB / A / D / T	Class "AB"	Class "AB"	Class "AB"
TECHNOLOGY	ch / bridgeable?	2/1 ch, bridgeable	2/1 ch, bridgeable	4/3/2 ch, bridgeable
BOSCH(USA) PART NUMBER	MOSFET / BTL	BTL	BTL	BTL
UPC(USA)	F00E4300##	17	18	19
BOSCH(Germany) PART NUMBER	0 - 28851 - 9300X-X	1-7	2-4	3-1
EAN NUMBER	7-607-XXX-XXX	792068	792069	792070
	3165144 - XXXXXX	232124	232131	232148
PARAMETERS/FEATURES				
CHANNELS		2 / 1	2 / 1	4 / 3 / 2
SIZE - largest dimensions ( W x H x D)	in. (mm)	9.2x2.0x9.5" (234x51x241)	9.2x2.0x12.6" (234x51x320)	9.2x2.0x12.9" (234x51x328)
- Heatsink ( W x H x D)	in. (mm)	9.2x2.0x8.0" (234x51x203)	9.2x2.0x11.1" (234x51x282)	9.2x2.0x11.4" (234x51x290)
WEIGHT	lbs. (kg)	3.5 (1.59 kg)	4.8 (2.18 kg)	5.0 (2.27 kg)
SPEAKER CONNECTORS		Spade screws terminals	Spade screws terminals	Spade screws terminals
MAXIMUM SPEAKER WIRE SIZE		14 gauge	14 gauge	14 gauge
MAXIMUM POWER WIRE SIZE		8 gauge	8 gauge	8 gauge
SUBSONIC FILTER		YES (10 Hz)	YES (10 Hz)	YES (10 Hz)
SEPARATE FRONT/REAR GAIN?		N/A	N/A	YES
LEFT/RIGHT GAIN CONTROLS?		N/A	N/A	N/A
FUSE TYPE		ATC spade - 20A	ATC spade - 2@20A	ATC spade - 2@25A
SPEAKER SHORT, SHORT TO 12v		YES	YES	YES
SHORT TO GND PROTECTION?		YES	YES	YES
HIGH, LOW, REVERSE VOLTAGE PROTECTION		YES	YES	YES
OUTPUT TRANSISTORS		BTL	BTL	BTL
POWER SUPPLY TRANSISTORS		BTL	BTL	BTL
MINIMUM SPEAKER IMPEDANCE		2 ohms	2 ohms	2 ohms
Non-bridged		4 ohms	4 ohms	4 ohms
Bridged				
ACCESSORIES		Screws & mounting hardware	Screws & mounting hardware	Screws & mounting hardware
		User manual	User manual	User manual
PERFORMANCE DATA				
RATED POWER OUTPUT @ 1.0%THD, 14.4V				
unbridged into 4ohms	Watts rms	2 x 50 W	2 x 100 W	4 x 50 W
unbridged into 2 ohms	Watts rms	2 x 75 W	2 x 150 W	4 x 75 W
bridged into 4 ohms	Watts rms	1 x 150 W	1 x 300 W	2 x 150 W
TOTAL HARMONIC DISTORTION @ FULL POWER		0.1 % THD	0.1 % THD	0.1 % THD
SIGNAL/NOISE RATIO (gain controls in center)				
measured @ 1 watt / 1 kHz	dBA	85	85	85
measured @ full rated power (0.1%THD)	dBA	> 100	> 100	> 100
DAMPING FACTOR		> 100	> 100	> 100
FREQUENCY RESPONSE				
(full range mode)		20 - 30,000 Hz	20 - 30,000 Hz	20 - 30,000 Hz
HIGH-PASS CROSSOVER FREQ. } center = 100 Hz		50 - 250 Hz (variable)	50 - 250 Hz (variable)	50 - 250 Hz (variable)
LOW-PASS CROSSOVER FREQ. }		50 - 250 Hz (variable)	50 - 250 Hz (variable)	50 - 250 Hz (variable)
CROSSOVER SLOPES (HP & LP)	dB/Octave	12dB/oct	12dB/oct	12dB/oct
INPUT IMPEDANCE		10 kohms	10 kohms	10 kohms
INPUT SIGNAL VOLTAGE RANGE				
FOR MAX OUTPUT POWER		0.3 - 6.0 vrms	0.3 - 6.0 vrms	0.3 - 6.0 vrms
CURRENT DRAW @ 13.8VDC (typical values @X watts / Efficiency %)				
@full rated power, unbridged	@ 4 ohms	13.3 A (50%)	26 A (50%)	27 A (50%)
@33% rated power, unbridged	@ 4 ohms	7.5 A (30%)	15 A (30%)	16 A (30%)
@idle	@ 4 ohms	1.5 A	1.5 A	1.5 A
MINIMUM BATTERY VOLTAGE		12.6 VDC	12.6 VDC	12.6 VDC
TO MAINTAIN FULL RATED POWER				
USABLE BATTERY VOLTAGE		10 - 16 VDC	10 - 16 VDC	10 - 16 VDC
TRIGGER LINE VOLTAGE RANGE		10 - 16 VDC	10 - 16 VDC	10 - 16 VDC
TRIGGER LINE CURRENT DRAW		< 10 mA	< 10 mA	< 10 mA
TURN ON DELAY TIME		@ 2.0 seconds	@ 2.0 seconds	@ 2.0 seconds
THERMAL SHUT-OFF TEMPERATURE				
(average heatsink temp)		@ 85 degrees C (185F)	@ 85 degrees C (185F)	@ 85 degrees C (185F)
BUSINESS PROCESS				
SALES METHOD	beauty box / bulk	beauty box	beauty box	beauty box
UNIT WEIGHT	lbs. (kg)	4.1 (1.85 kg)	5.7 (2.59 kg)	5.9 (2.68 kg)
UNIT SIZE ( H x W x L)	H x W x L (in.)	3.2 x 10.2 x 10.7"	3.2 x 10.2 x 14.2"	3.2 x 10.2 x 14.2"
	H x W x L (mm)	8.12 x 25.9 x 27.2 cm	8.12 x 25.9 x 36.0 cm	8.12 x 25.9 x 36.0 cm
CASE WEIGHT	lbs. (kg)	35 lbs (15.9 kg)	36.4 lbs(16.5 kg)	37.7 lbs (17.1 kg)
CASE SIZE ( H x W x L)	H x W x L (in.)	10.8 x 13.6 x 22.0 in.	10.8 x 14.4 x 20.2 in.	10.8 x 14.8 x 19.7 in.
	H x W x L (mm)	275 x 345 x 560 mm	275 x 365 x 512 mm	275 x 375 x 500 mm
CASE QUANTITY	Units per case	8	6	6
CASE BAR CODE	100-28851-9300X-X	1-4	2-1	3-8
PALLET QUANTITY	Cases/Bosch pallet	15	15	18