

Quad AC / DC POWER SUPPLY
with very high insulation voltage

GIS18 - 35AD

$V_{in} = 230 \text{ V}$

$V_{out} = 35 \text{ V}$

$V_{iso} = 18 \text{ kV}$

$P_{max} = 300 \text{ W}$

APPLICATIONS

- Auxiliary power supply for high voltage power semiconductors (IGCT,GTO,IGBT)

ELECTRICAL DATA

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage V_{in}	AC voltage 50 / 60 Hz (or DC)	100	230	250	V
Output Voltage V_{out}	DC voltage (additional AC 70kHz)	30	35	39	V
Max.Output Power P_{max1}	Power of one output channel	140	150	180	W
Max. Output Power P_{max}	Power of all four channels together	280	300	330	W
Input current	with power factor correction		1.4	5	A
Insulation Voltage output to ground V_{iso}	50 Hz AC voltage, 10 sec, without Partial Discharge (< 10pC)		30		kV
		18	21		kV
Insulation Capacitance	output to ground		20		pF
Max. dv/dt (Insulation)	ground connection at base plate			25	kV/ μ s
storage temperature		-30		70	°C
ambient temperature	$V_{in} > 200V$	-20		50	°C
Short Circuit Time	output shortened (Temp. < 30°C)	not limited			

OPTICAL ERROR FEEDBACK

- The LED is on for error free condition.
- The LED is off for the following error conditions: output overload, high temperature, low input voltage.
- A suitable optical receiver is the HFBR-2528.

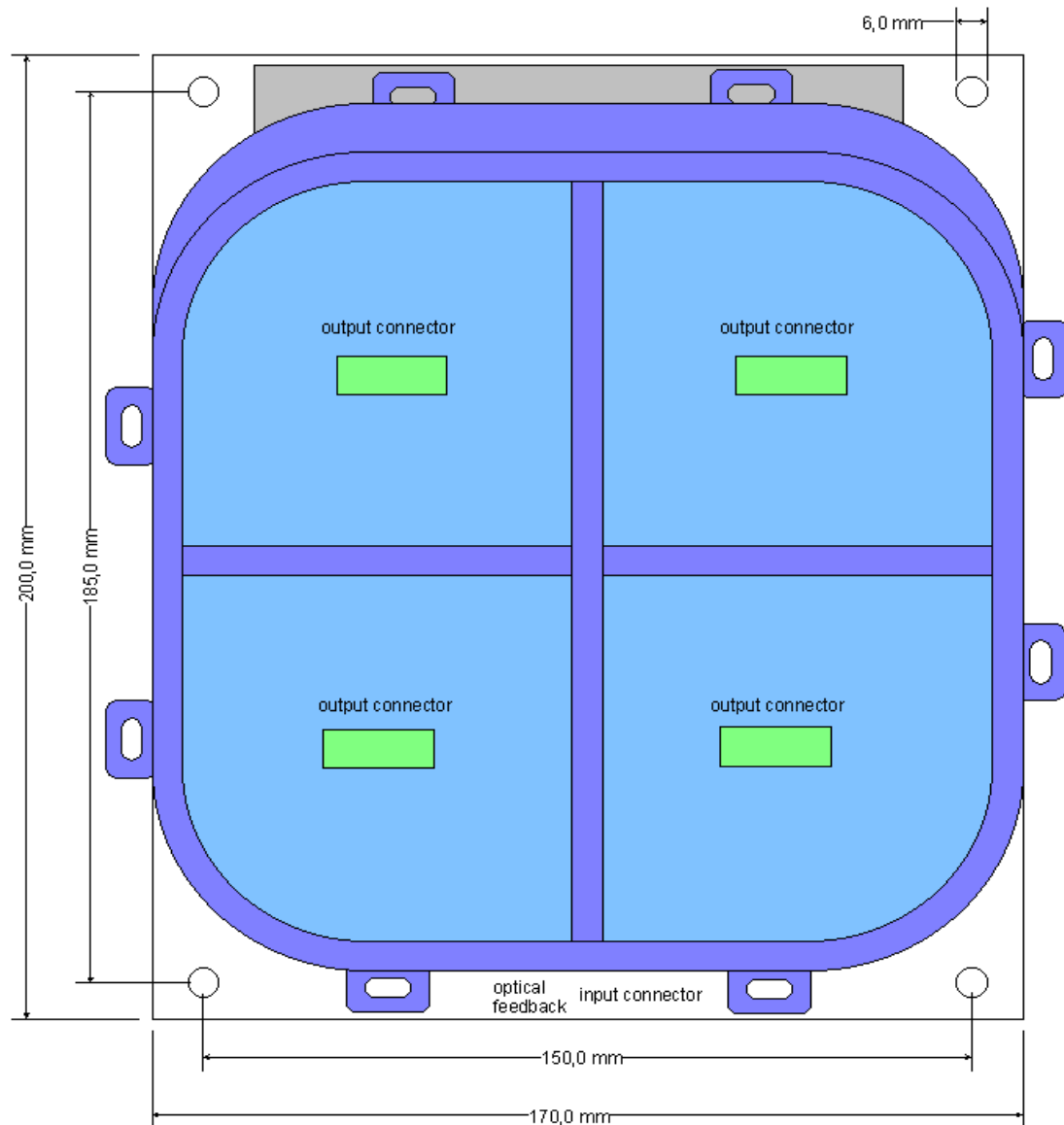
CONNECTION DATA

Input Connector Phoenix 1926028	1 = PE (ground, earth) 2 = N (neutral) 3 = L (line, phase)
Output Connector (4 x) Phoenix 1926031	1 = AC1 (AC voltage 70 kHz) 2 = DC+ (DC voltage positive) 3 = DC- (DC voltage negative) 4 = AC1 (AC voltage 70 kHz)

INSTALLATION INSTRUCTIONS

- It is important to establish a low inductive ground connection.
- The environment must be clean and dry. Excessive temperature should be avoided.

DIMMENSIONS



PARAMETER	TYP	UNIT
Height	170	mm
Creepage distances output to input side (earth)	210	mm
Creepage distances output to output	110	mm
Clearance output to input side	160	mm
Weight	5600	g

IMPORTANT NOTICE

Siebel & Scholl GmbH reserves the right to change specifications without notice. Siebel & Scholl GmbH makes no warranty regarding the suitability of this product for any particular purpose. Mounting only by technical experts.

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