

Quad AC / DC POWER SUPPLY
with very high insulation voltage

GIS18 - 35AD



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

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

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

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



Datasheet Revision D

09.05.2017

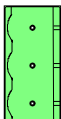
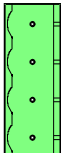
APPLICATIONS

- 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)	150	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
Continuous Power	Power of one output channel	100			W
Max. Output Power P_{max}	Power of all four channels together	280	300	330	W
Input current	with power factor correction		1.4	4	A
Insulation Voltage output to ground V_{iso}	50 Hz AC voltage, 60 sec, without partial discharge (< 10pC)		35		kV
		18	21		kV
Insulation Voltage output to output	50 Hz AC voltage, 60 sec, without partial discharge (< 10pC)		21		kV
		9	13		kV
Insulation Capacitance	output to ground		30		pF
Basic Insulation Level (BIL)	1,2µs/50µs, 15 pulses each polarity	110			kV
Max. dv/dt (Insulation)	ground connection at base plate			25	kV/µs
storage temperature		-30		70	°C
ambient temperature	$V_{in} > 150\text{V}$	-20		60	°C
Short Circuit Time				60	sec

CONNECTION DATA

Input Connector Phoenix 1926028		1 = PE (ground, earth) 2 = N (neutral) 3 = L (line, phase)
Output Connector (4 x) Phoenix 1755752		1 = AC1 (AC voltage 70 kHz) 2 = DC- (DC voltage negative) 3 = DC+ (DC voltage positive) 4 = AC1 (AC voltage 70 kHz)

OPTICAL ERROR FEEDBACK

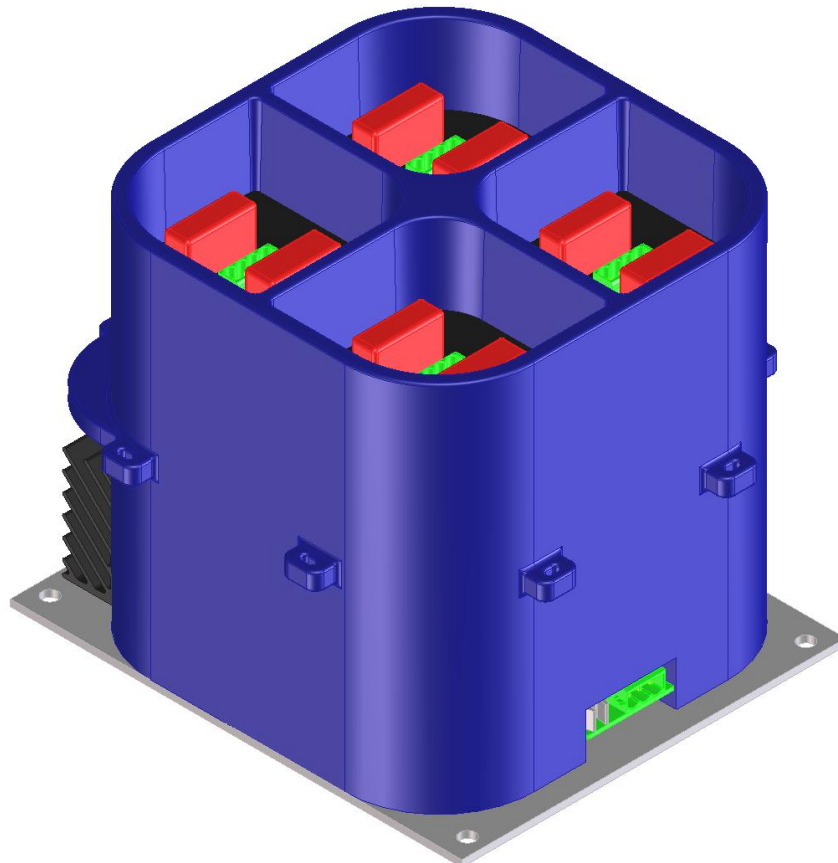
- The LED is on for error free condition.
- The LED is off for the following error conditions: output overload, high temperature, low input voltage.
- A suitable optical receiver is the HFBR-2528

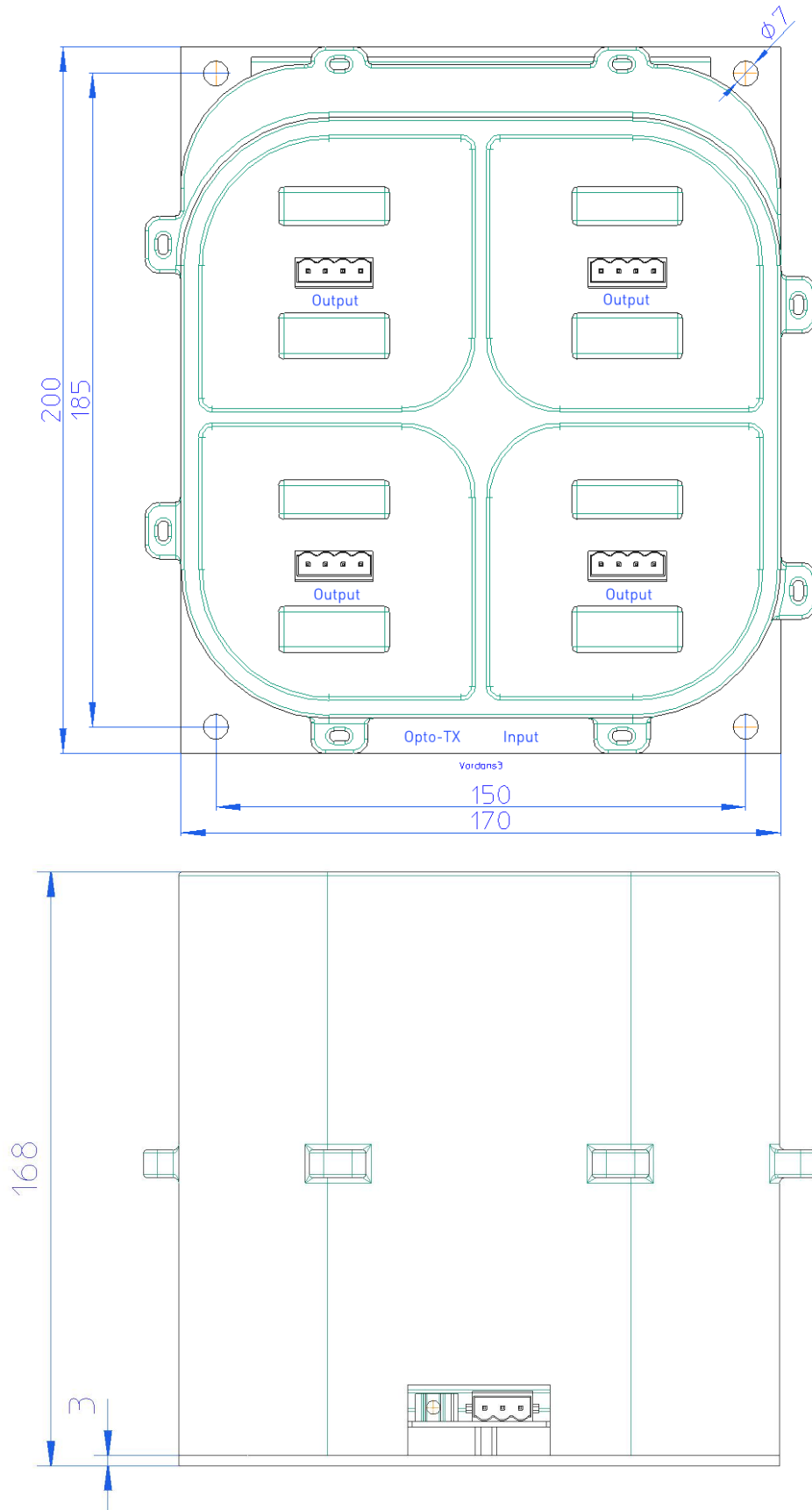
INSTALLATION INSTRUCTIONS

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

DIMENSIONS

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 Elektronik GmbH reserves the right to change specifications without notice. Siebel Elektronik GmbH does not provide a guarantee regarding the suitability of this product for any particular purpose. Mounting only by technical experts.