

Quad AC / DC POWER SUPPLY  
with very high insulation voltage

# GIS18-24V- 35AD



$V_{in} = 24 \text{ V DC}$   
 $V_{out} = 35 \text{ V}$   
 $V_{iso} = 18 \text{ kV}$   
 $P_{max} = 300 \text{ W}$



Datasheet Revision C

09.05.2017

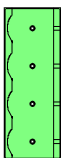
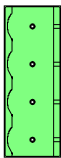
## APPLICATIONS

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

## ELECTRICAL DATA

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage $V_{in}$	DC voltage	21.6	24	25.2	V
Output Voltage $V_{out}$	DC voltage (additional AC 70kHz)	30	35	40	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 300W output power		14.2	16	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		-20		50	°C
Short Circuit Time	output shortened	60s self limiting			

## CONNECTION DATA

Input Connector Phoenix 1757268		1 = DC- (DC voltage negative) 2 = DC- (DC voltage negative) 3 = DC+ (DC voltage positive) 4 = DC+ (DC voltage positive)
Output Connector (4 x) Phoenix 1755752		1 = AC (AC voltage 70 kHz) 2 = DC- (DC voltage negative) 3 = DC+ (DC voltage positive) 4 = AC (AC voltage 70 kHz)

## OPTICAL ERROR FEEDBACK

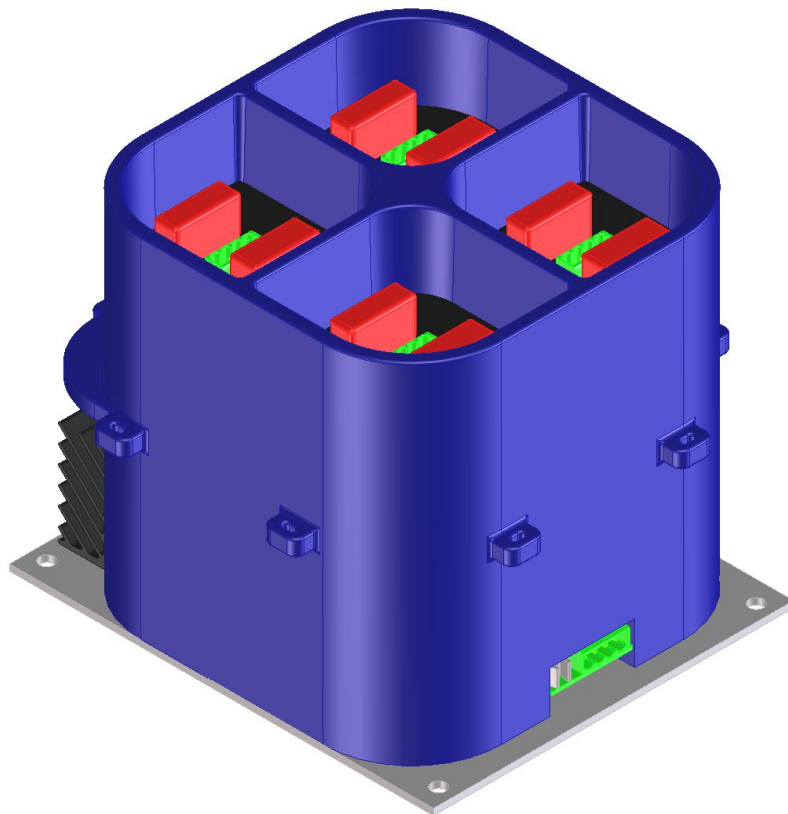
- The LED is on for error free condition.
- The LED is off for the following error conditions: output overload, high temperature, low input voltage
- A suitable optical receiver ist the HFBR-2528

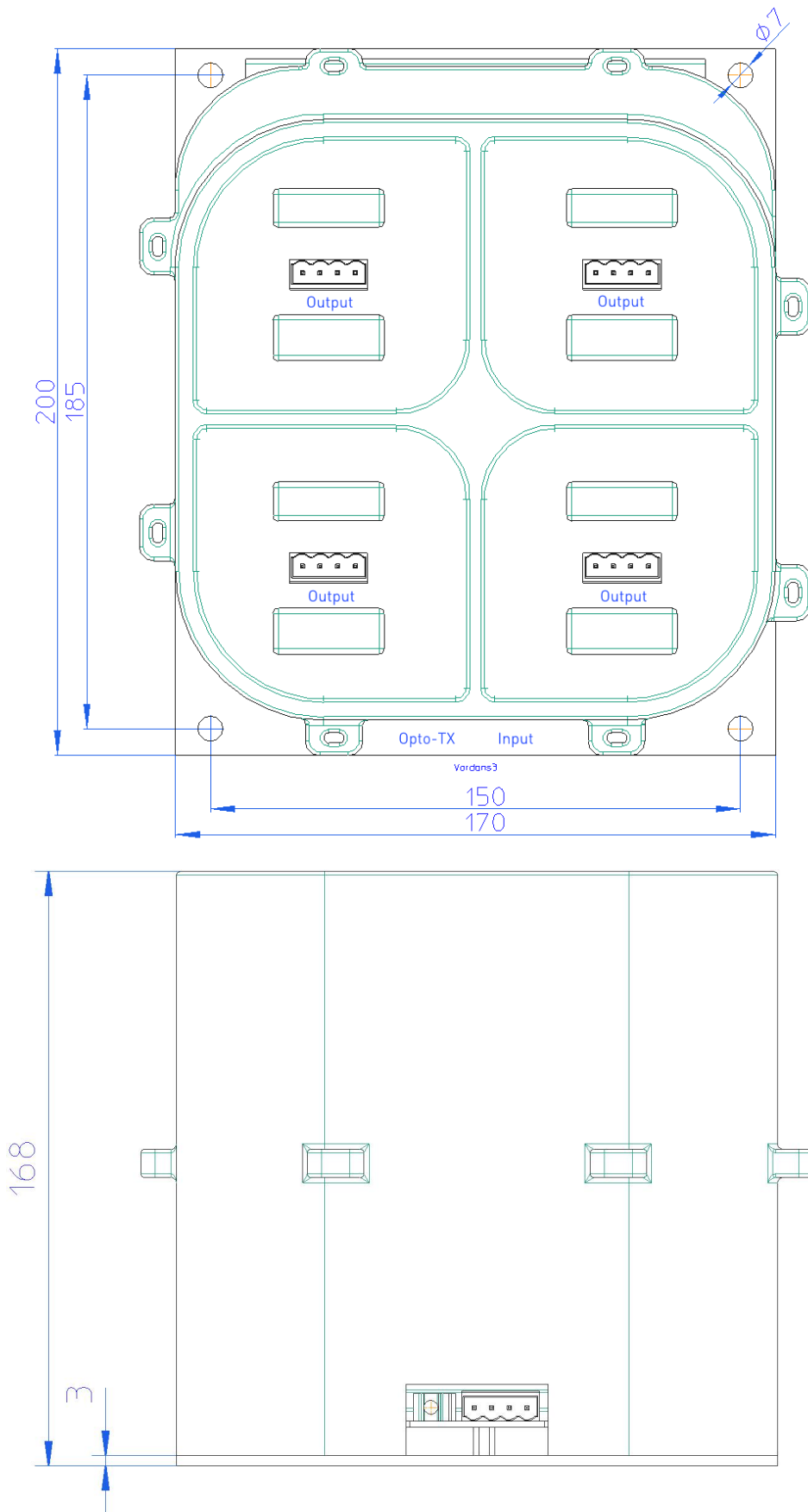
## INSTALLATION INSTRUCTIONS

- 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.