

## AC/DC Power Supply

Made in Europe 

### Single Output voltage- and current mode Series GTP/GTPW

Output power 250 + 600 W

Wide range input

Primary switched

Power Factor Correction

High efficiency

Telecom applications



#### Input:

Input voltage (AC)	230 V $\pm$ 15 % 50/60 Hz or 90 - 264 V <sub>AC</sub> 50/60 Hz with thermistor or active
Inrush current limiting	ca. 0,99 (at 230 V input and full load)
Power Factor	meets EN61000-3-2

#### Output:

Output voltage (DC)	see table
Output current	see table
Output power	see table
Efficiency	> 80%, dependent on U <sub>a</sub> and U <sub>a</sub> and option

#### Regulation:

Line regulation	< 0,1 % U <sub>A</sub> typ. 0,02 %
Load regulation (10% ÷ 90% output load change)	static: < 1 % U <sub>A</sub> dynamic: < 5 % U <sub>A</sub>
Dynamic response	≤ 1 ms
Ripple and noise	< 0,2 % U <sub>A</sub> (resistive load)
Current ripple	< 0,5 % I <sub>A</sub>
Temperature coefficient	< 0,02 % / K

#### Protection:

Overload protection	Current limit at 1,1 x I <sub>Nenn</sub> short circuit protection
Overvoltage protection	at U <sub>A</sub> ca. + 15 %
Voltage control	signal relais
Thermal protection	shut down, auto recover

#### Environmental Conditions:

Operating temperature	-10° C ÷ + 50° C no moisture condensation free air convection
Cooling	
Switching frequency	300 W: 100 kHz 600 W: 50 kHz

#### Safety:

Safety standard	EN60950
Isolation	input - output: 3,0 kV <sub>eff</sub> input - ground: 1,5 kV <sub>eff</sub> output - ground: 700 V <sub>eff</sub>

#### EMC:

Input EMI filter	EN50081-1, EN55011
Input immunity	EN50082-1, EN55022

#### Operating and Control:

Parallel operation	units with same U <sub>A</sub> with additional ext. connection current sharing up to 0,5 V standard
Remote sense	LED green: At I <sub>A</sub> > 5 % I <sub>Nom</sub> LED green: Power on (U <sub>A</sub> present) LED red: Error (U <sub>A</sub> not present)
Adjustment signals	LED green: Power on (U <sub>A</sub> present) LED red: Error (U <sub>A</sub> not present)
Adjustment	voltage $\pm$ 10 %, potentiometer front-panel access

#### Connectors:

Input and output	H15-Connector, to DIN 41612
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#### Physical Specifications:

Dimensions	see table
Weight	300 W: 2,5 kg 600 W: 4,5 kg

**GTP:**

Voltage (V) / Current (A) $U_E = 230 \text{ VAc}$	Power (W) free air convection	Model Number
24/12	300	GTP24/12
24/24	600	GTP24/24
48/6	300	GTP48/6
48/12	600	GTP48/12
60/5	300	GTP60/5
60/10	600	GTP60/10

**GTPW:** (wide range input)

Voltage (V) / Current (A) $U_E = 90 - 264 \text{ VAc}$	Power (W) free air convection	Model Number
24/10,5	250	GTPW24/10,5
24/21	500	GTPW24/21
48/5,2	250	GTPW48/5,2
48/10,5	500	GTPW48/10,5
60/4,2	250	GTPW60/4,2
60/8,4	500	GTPW60/8,4

**PIN Assignment:**

H15- connector	GTP, GTPW
z4	- Sense
d6	- Sense
z8	+ Output
d10	+ Output
z12	- Output
d14	- Output
z16	Current Share
d18	Relays 11 (common contact)
z20	Relays 11 (normally open)
d22	Relays 11 (normally closed)
z24	
d26	L
z28	
d30	N
z32	⊕

**Options:**

Female plug H15  
19" front-panel, colour RAL 7032  
Sub front-panel  
- colour Al anodized  
- colour RAL 7032  
mounting brackets to assemble for stand-alone model  
- horizontal  
- vertical  
other colours consult factory

**Dimensions:** (TE = 5,08 mm)

Output power (W)	Dimensions H x T	Case width (T)	Sub front- panel (T)
250 ÷ 300	3 HE x 171,5 mm	29	31
500 ÷ 600	3 HE x 184,4 mm	36	38