

AC/DC Power Factor Corrected Power Supply

Made in Europe 

Single Output voltage- and current regulated Series GTP/GTPW

Output power 250 – 600 W
Wide range input
Primary switched
Power Factor Correction
High efficiency
For all industrial applications



Input:

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

Output:

Output voltage (DC) see table
Output current see table
Output power see table
Efficiency > 80%, dependent on U_{in} and U_{out}
and option

Regulation:

Line regulation < 0,1 % U_{out}
typ. 0,02 %
Load regulation static: < 1 % U_{out}
(10% ÷ 90% output load change) dynamic: < 5 % U_{out}
Dynamic response \leq 1 ms
Ripple and noise < 0,2 % U_{out} (resistive load)
Current ripple < 0,5 % I_{out}
Temperature coefficient < 0,02 % /K

Protection:

Overload protection Current limit at 1,1 x I_{Nom}
short circuit protection
Overvoltage protection at U_{out} ca. + 15 %
Voltage control signal relay
Thermal protection shut down, auto recover

Environmental Conditions:

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

Safety:

Safety standard EN60950
Isolation input - output: 3,0 kV_{eff}
input - ground: 1,5 kV_{eff}
output - ground: 700 V_{eff}

EMC:

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

Operating and Control:

Parallel operation units with same U_{out}
with additional ext. connection
current sharing
Remote sense up to 0,5 V
standard
Adjustment signals LED green: At I_{out} > 5 % I_{Nom}
LED green: Power on
(U_{out} present)
LED red: Error
(U_{out} not present)
Adjustment voltage \pm 10 %, potentiometer
front-panel access

Connectors:

Input and output H15-Connector, to DIN 41612

Physical Specifications:

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

GTP:

Voltage (V) / Current (A) $U_{IN} = 230 \text{ VAc}$	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) $U_{IN} = 90 - 264 \text{ VAc}$	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	Signal Relais 11 (common contact)
z20	Signal Relais 14 (normally open)
d22	Signal Relais 12 (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
other colours consult factory
Decoupling diode for parallel operation
mounting brackets to assemble for stand-alone model -
horizontal
- vertical

Dimensions: (TE = 5,08 mm)

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