



## TÁPEGYSÉG 3 FÁZIS, 48 VDC DIMENSION X SZÉRIA

48 V DC, 20 A, félig szabályozott

XT40.481

PSU 3PH 400V ac I/P 48V dc 20A 960W O/P

- Kimeneti áramerősség 20 A
- 96%-os hatásfok
- Félig szabályozott
- Lineáris transzformátorok kiváltása
- Magas rövidzárlati áramok

# PULS



### TERMÉKLEÍRÁS

## MŰSZAKI ADATOK

Active Transient	Igen
Efficiency At 400 V AC, full load. Typical	96 %
Fázisok száma	3
Hold-up time at 400 V AC, full load. Typical.	3 ms
Input voltage AC	400 V
Input voltage ac max	440 V AC
Input voltage ac min	360 V AC
Inrush current at 400 V ac typical	4 A
IP-osztály	IP20
Jóváhagyások	CB, CE, CSA, UL
Lifetime at 400 V ac, full load and +40 ° C	77000 h
Magasság	124 mm
Mélység	159 mm
MTBF (IEC 61709) 400 V ac, max load, +40 °C	541000 h
Output Current	20 A
Output voltage	48 V DC
Output voltage max	48 V DC

<b>Output voltage min</b>	48 V DC
<b>Power consumption at 400 V ac</b>	1,65 A
<b>Power Factor at 400 V AC, full load. Typical</b>	0,93
<b>Power Reduction Of 60 To 70 ° C</b>	24 W/°C
<b>Ripple. max</b>	300 mV pp
<b>Series</b>	Dimension X
<b>Supply Frequency</b>	50-60 ±6 %
<b>Szélesség</b>	96 mm
<b>Teljesítmény</b>	960 W
<b>Temperature Range Without Derating From</b>	-25 °C
<b>Temperature Range Without Derating To</b>	60 °C
<b>Tömeg</b>	1,4 kg
<b>Védőanyag</b>	Alumínium

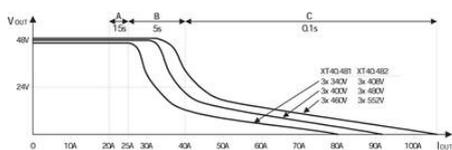


Fig. 5-1 Output voltage vs. input voltage and input current

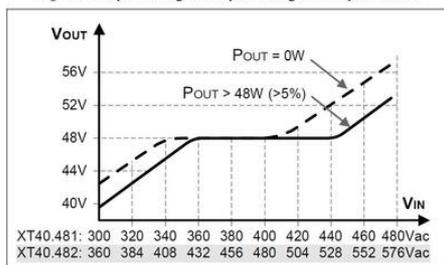


Fig. 15-1 Output current vs. ambient temp.,

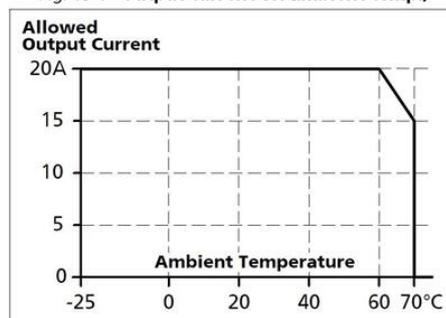


Fig. 9-1 Efficiency vs. output current

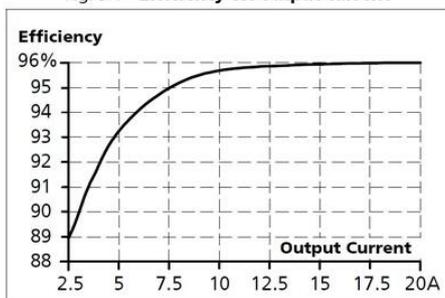
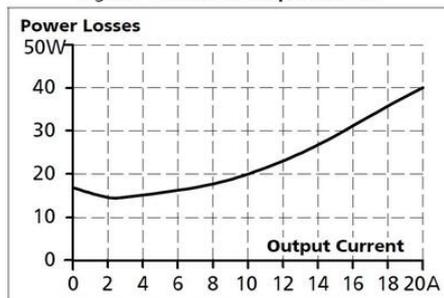


Fig. 9-2 Losses vs. output current



25. COMPARISON BETWEEN THE XT40, A TRANSFORMER AND A TRADITIONAL SWITCHED-MODE POWER SUPPLY

	XT40 Semi-regulated power supply	Traditional switched-mode power supply	Transformer power supply
Input voltage range	+	+	-
Inrush current surge	++	+	-
Hold-up time	-	+	-
Phase-loss operation	-	+	-
Efficiency	+++	++	-
Output voltage regulation	+	++	-
Output adjustment range	-	++	-
Ripple & noise voltage	-	++	-
Error diagnostic	++	++	-
Harmonic distortion (PFC)	+	+	-
EMC	++	++	+
Ease of installation	++	++	-
Size	+++	++	-
Weight	+++	+	-

+++...very, very good ++...very good +...good -...poor

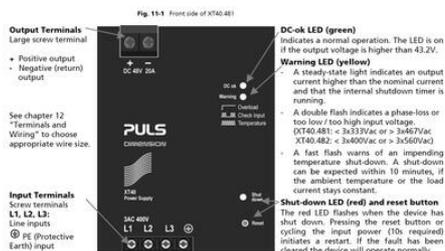


Fig. 11-1 Front side of XT40.481

**Output Terminals**  
Large screw terminal  
+ Positive output  
- Negative (return) output

See chapter 12 "Terminals and Wiring" to choose appropriate wire size.

**Input Terminals**  
Screw terminals  
L1, L2, L3 Line inputs  
PE (Protective Earth) input

**DC-ok LED (green)**  
Indicates a normal operation. The LED is on if the output voltage is higher than 43.2V.

**Warning LED (yellow)**  
A steady-state light indicates an output current higher than the nominal current and that the internal shutdown timer is running.

- A double flash indicates a phase-loss or too low / too high input voltage. (XT40.481: <math>3 \times 333V\_{ac}</math> or <math>3 \times 467V\_{ac}</math>; XT40.482: <math>3 \times 400V\_{ac}</math> or <math>3 \times 560V\_{ac}</math>)
- A fast flash warns of an impending temperature shut-down. A shut-down can be expected within 10 minutes, if the ambient temperature or the load current stays constant.

**Shut-down LED (red) and reset button**  
The red LED flashes when the device has shut down. Pressing the reset button or cycling the input power (10s required) initiates a restart. If the fault has been cleared the device will operate normally.

Fig. 22-1 Front view

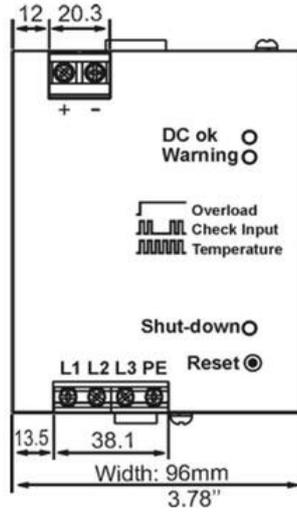


Fig. 22-2 Side view

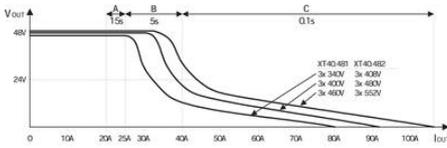
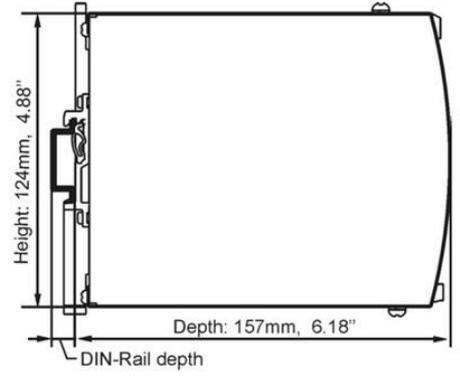


Fig. 5-1 Output voltage vs. input voltage and input current

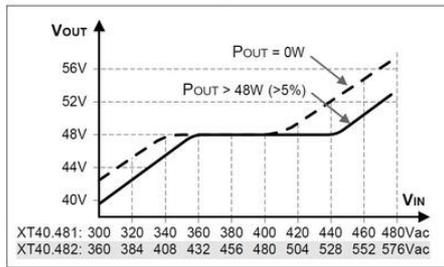


Fig. 15-1 Output current vs. ambient temp., Allowed Output Current

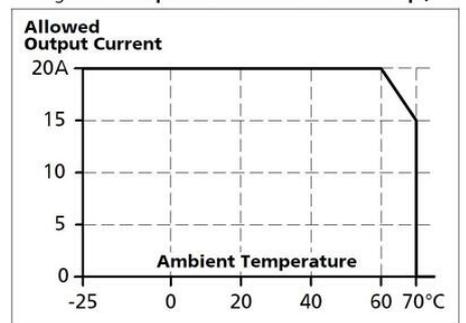


Fig. 9-1 Efficiency vs. output current

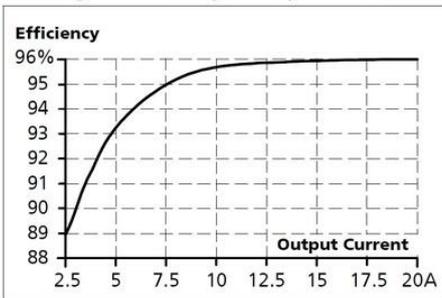
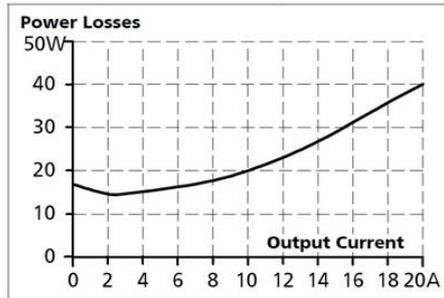


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Harmonic distortion (THD)	+	+	-
EMC	++	++	-
Ease of installation	++	++	-
Size	+++	+	-
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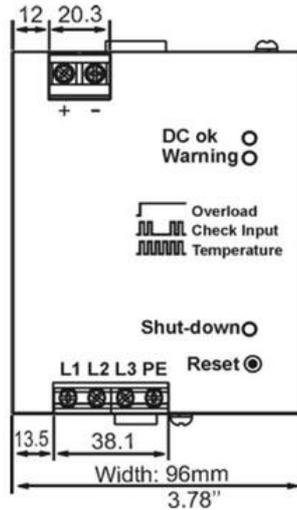


Fig. 22-2 Side view

