# 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

**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 loan, +40 °C** | 541000 h |
| **Output Current** | 20 A |
| **Output voltage** | 48 V DC |

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

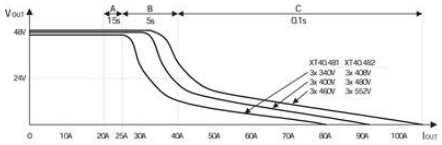



Fig. 5-1 **Output voltage vs. input voltage and input current**

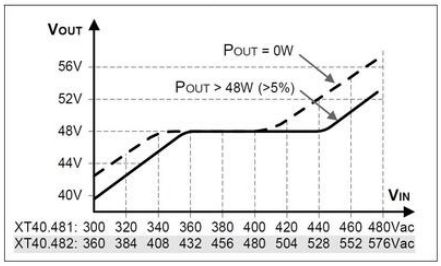



Fig. 15-1 **Output current vs. ambient temp.,**

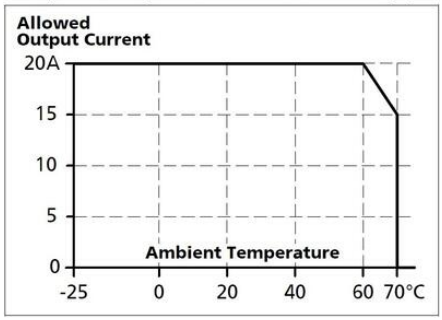



Fig. 9-1 **Efficiency vs. output current**

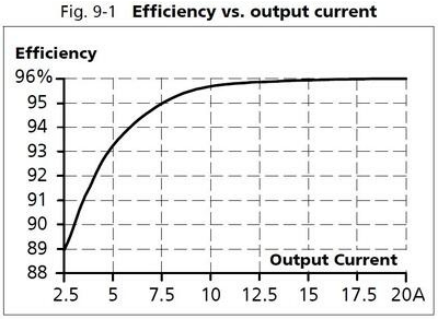
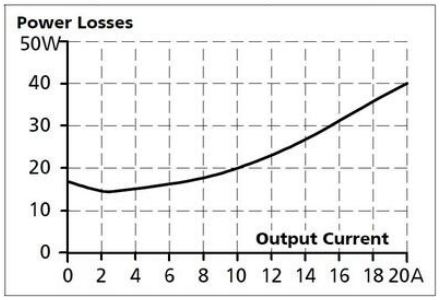



Fig. 9-2 **Losses vs. output current**




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 diagnostics | ++ | ++ | - |
| Harmonic distortion (PFC) | + | + | - |
| EMC | ++ | ++ | + |
| Ease of installation | ++ | ++ | - |
| Size | +++ | ++ | - |
| Weight | +++ | + | - |

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

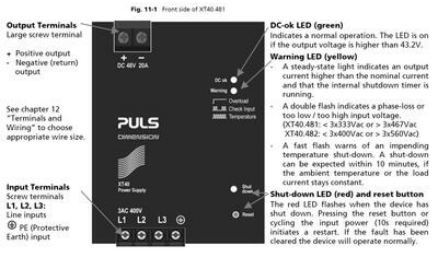


Fig. 22-1 **Front view**

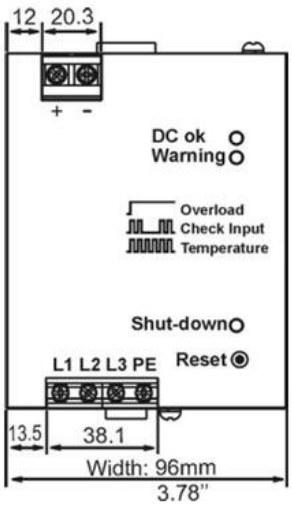
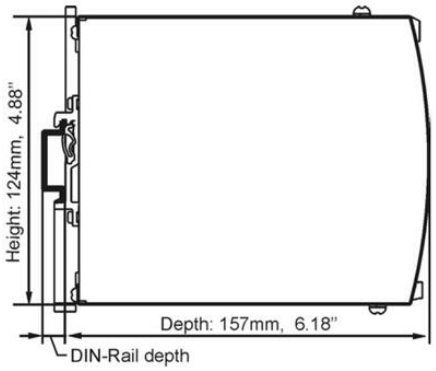
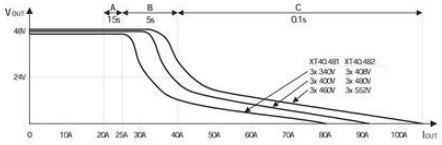



Fig. 22-2 **Side view**

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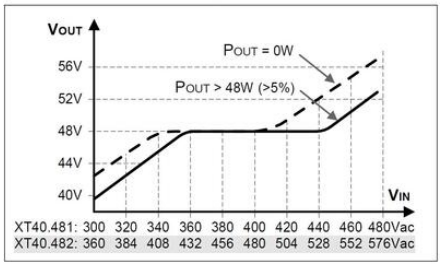



Fig. 15-1 **Output current vs. ambient temp.,**

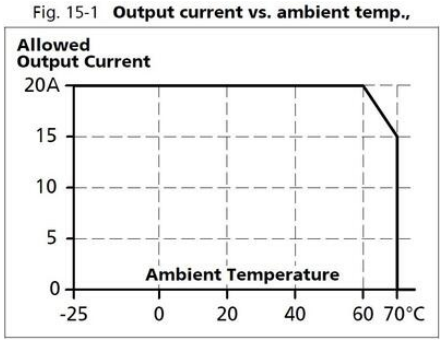



Fig. 9-1 **Efficiency vs. output current**

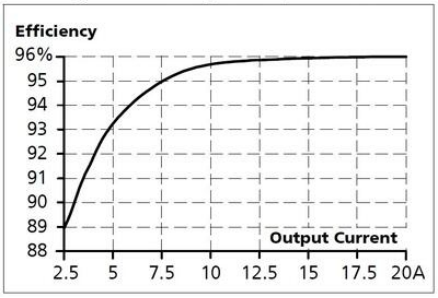
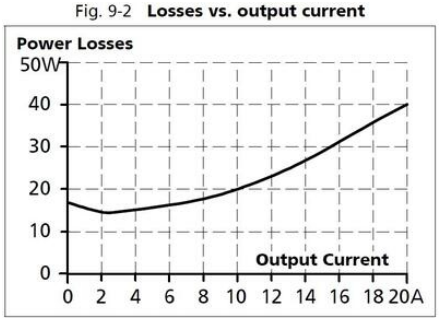



Fig. 9-2 **Losses vs. output current**




25. Comparison between the XT40, a Transformer and a Traditional Switched-mode Power Supply

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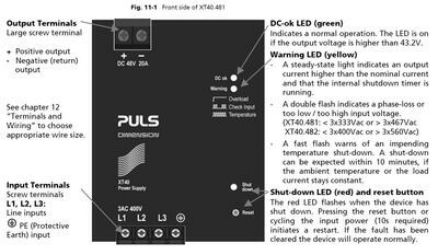
| Inrush current surge | ++ | + | - |
| Hold-up time | - | + | - |
| Phase-loss operation | - | + | - |
| Efficiency | +++ | ++ | - |
| Output voltage regulation | + | ++ | - |
| Output adjustment range | - | ++ | - |
| Ripple & noise voltage | - | ++ | - |
| Error diagnostics | ++ | ++ | - |
| Harmonic distortion (PFC) | + | + | - |
| EMC | ++ | ++ | + |
| Ease of installation | ++ | ++ | - |
| Size | +++ | ++ | - |
| Weight | +++ | + | - |
| | +++...very, very good | ++...very good | +...good -...poor |

Fig. 11-1 Front side of XT40.461




**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: < 3x333Vac or > 3x467Vac XT40.482: < 3x480Vac or > 3x560Vac)
- 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**

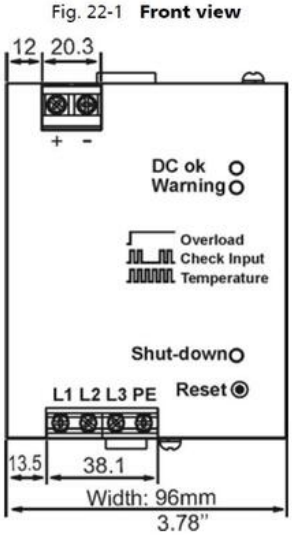



Fig. 22-2 **Side view**