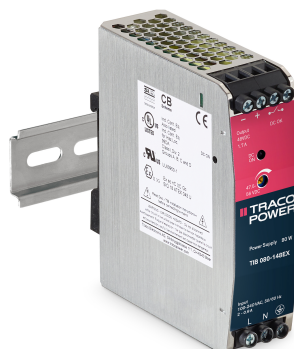


- UL Hazloc Class I, division 2 approval and ATEX certification
- SEMI F47 compliant for voltage sag immunity
- Rugged metal case with optional side-mounting
- Back power immunity
- 150% peak current for 4 s
- Operating Temp -40°C to +70°C (full load up to 60°C)
- Adjustable output voltage
- High Reliability: MTBF 1 mill hrs per IEC 61709
- Short circuit and overload protection
- 5-year product warranty



The TIB 080-EX family of next generation of 80 Watt din rail power supplies feature high efficiency operation of up to 90% enabling a slim design with alternative side-mounting for flat panels (DC OK Indicator on both front and side panel). These products certified to UL Hazloc Class 1 / Div 2, and ATEX (EN 60079-0, EN 60079-7, EN 60079-15) for operation in hazardous locations. These convection cooled power supplies have a -40°C to +60°C full load operating temperature range. 150% peak power for up to 4 seconds which is ideal for stepper motors, solenoids or actuators. The TIB 080-EX series has an important Back Power Immunity feature that helps protect against shut-down or malfunction with loads such as inductors and decelerating motors that can feed voltage back to the power supply. Outputs are radio-interference-suppressed to impede radiation at long output lines which reduces the common mode current to within limits of telecommunication ports. The series operate with a high power factor of up to 99% which also minimizes inrush current. Additional qualifications include IEC/EN/UL 60950-1, UL 508 and CB Report with EMC compliance to IEC/EN 61000-6-2 and IEC/EN 61000-6-3.

Models					
Order Code	Output Power max.	Output Voltage nom. (adjustable)	Output Current max.	Output Current peak	Efficiency typ.
TIB 080-112EX	80 W	12 VDC (11.8 - 15.0 VDC)	6'700 mA	10'050 mA	88 %
TIB 080-124EX		24 VDC (23.5 - 28.0 VDC)	3'400 mA	5'100 mA	90 %
TIB 080-148EX		48 VDC (47.0 - 56.0 VDC)	1'700 mA	2'550 mA	90 %

Input Specifications

Input Voltage		85 - 264 VAC (Full Range)
Input Frequency		45 - 65 Hz
Power Consumption	- at no Load	1'450 mW typ.
Input Inrush Current	- at 230 VAC - at 115 VAC	30 A max. 15 A max.
Power Factor	- at 230 VAC - at 115 VAC	0.48 min. (Active Power Factor Correction) 0.48 min. (Active Power Factor Correction)

Output Specifications

Output Voltage Adjustment		12 VDC model: 11.8 - 15.0 VDC 24 VDC model: 23.5 - 28.0 VDC 48 VDC model: 47.0 - 56.0 VDC By trim potentiometer Output power must not exceed rated power!
Regulation	- Input Variation (Vmin - Vmax) - Load Variation (10 - 90%)	0.1% max. 0.5% max.
Output Current peak		Peak Power: 105 - 150% of Iout max. Peak Operation Time: 4 s max. (switch off) Off Time: 6 s typ. In peak power mode, the unit continuously switches off the output voltage after 4 s and restarts after approx. 6 s.
Ripple and Noise (20 MHz Bandwidth)		12 VDC model: 100 mVp-p max. 24 VDC model: 100 mVp-p max. 48 VDC model: 200 mVp-p max.
Capacitive Load		Infinite
Minimum Load		Not required
Temperature Coefficient		±0.02 %/K max.
Hold-up Time	- at 230 VAC - at 115 VAC	160 ms min. 20 ms min.
Start-up Time	- at 230 VAC - at 115 VAC	2'000 ms max. 2'000 ms max.
Short Circuit Protection		Continuous, Automatic recovery
Overload Protection		Constant Current Mode Switch off after 4 s delay, automatic restart
Output Current Limitation		155% min. of Iout max.
Overvoltage Protection		117 - 158% of Vout nom. (depending on model) 16 - 19 VDC (12 VDC model) 32 - 35 VDC (24 VDC model) 56 - 60 VDC (48 VDC model) (In case of an internal error a second voltage regulation loop keeps the output voltage at a safe level, the power supply turns off and tries to restart after 6 s.)
Transient Response	- Peak Variation - Response Time	600 mV max. (10% to 90% Load Step) 2500 µs typ. (10% to 90% Load Step)

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.