

TEK SERIES TEK300



Single, Dual, Triple
and Quad Outputs

Universal Input

Worldwide Agency
Approvals

Smaller than
Comparable Models

Stock to 6 Weeks
Delivery

100% Burn-in/HiPot
Tested

Model TEK 300 300 Watt Switch Mode Power Supply

The compact TEK300 is offered in single, dual, triple and quad outputs, complete with short-circuit and overvoltage protection.

The universal input TEK300 series is designed for compliance with international safety and EMI standards and carrying the CE mark.

Specifications



Input Specifications

Input Voltage: 90-264VAC
(auto-selectable)
Input Frequency: 47-63 Hz
Input Surge (cold start): 80A max.



Key Features

Short-Circuit Protection:
Auto-recovery
Overvoltage Protection:
V1: 110-125%, programmable
Auxiliary Outputs: 125%
Overtemperature Protection



Environmental

- Operating

Temperature: 0 to 50°C
Relative Humidity: 8 to 90%,
non-condensing

- Storage

Temperature: -20 to 85°C
Relative Humidity: 5 to 95%,
non-condensing



Output Specifications

Output Voltages: 2, 3.3, 5, 12, 15,
24, 48 VDC
Adjustability: V1:±5%
Output Current: see model table

Power Output: 200 W, convection
cooling 300 W, forced air cooling
Efficiency (@ max load): 70% min.

- Total Regulation

Single Output: ±1%
Multiple Output:
Main Output: ±3%
Auxiliary Outputs: ±5%
Temperature Coefficient:
0.1%/°C, max.
Ripple and Noise: 1% p-p
Overshoot (turn on/off): No overshoot
Step Load Response:
<1% for 20-100% change
Turn-on Delay (120VAC): 1 sec, max.
Hold-up Time (120VAC): 20 ms



Design Standards

Safety: UL, cUL, TUV, VDE, CE
EMI: FCC Part 15 Class B
VDE 0871 Class A
EN55022

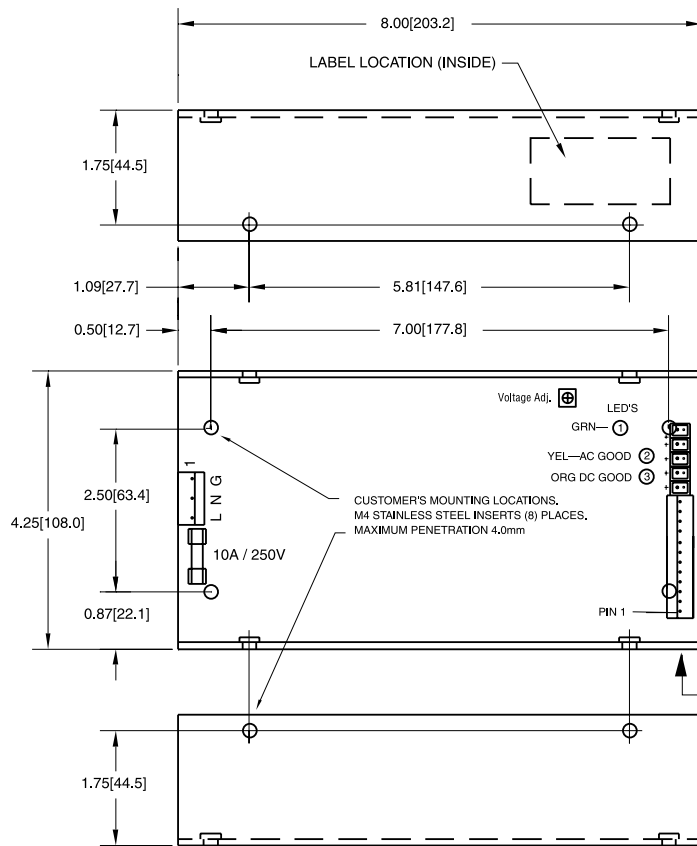


Options

Power Good Signal (programmable
delayed power on reset)
DC Good Signal (LED)
AC Good Signal (LED)
115/230 VAC Jumper/Selectable



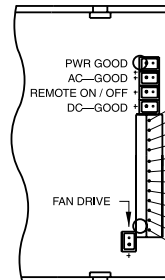
TEK SERIES TEK300



— INPUT MOLEX —
MATING CONN. 09—01—0500 OR EQUIV.
MATING PINS 08—50—0106.

— CONSTRUCTION —
.125" THK. ALUM. SHEET
BLACK ANODIC. PROTECTION.
LIMITS + / - .01[.25]

— OUTPUT MOLEX —
MATING CONN. V1 09—91—0500 OR EQUIV.
MATING CONN. V2, V3, & V4 09—91—0400 OR EQUIV.
MATING PINS 08—50—0106.



SINGLE
OUTPUT

MULTI
OUTPUT

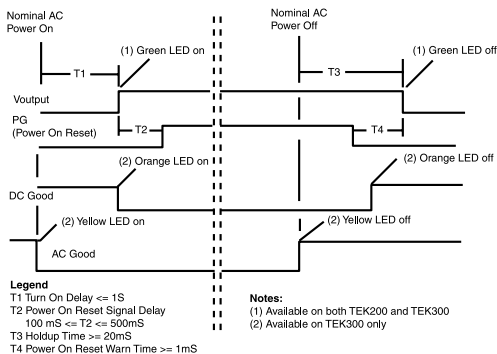
FAN DRIVE AND AUX SIGNALS
MATING CONN. 22—01—2027 OR EQUIV.
MATING PINS 08—50—0114

ALTERNATE I / O CONNECTORS
BARRIER STRIPS
EBY 6HS SERIES OR EQUIV.
6—32 SCREWS, 0.375 SPACING.

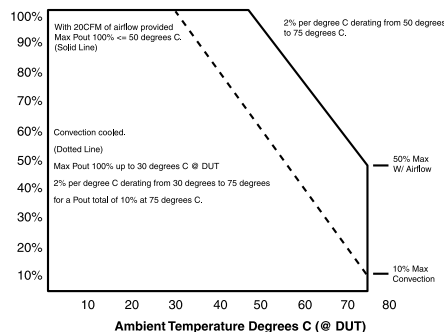
	Output V1		Output V4		Output V3 (Floating ±)		Output V2*	
Model	Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current
TEK300SA	3.3V	60A						
TEK300SB	5V	60A						
TEK300SC	12V	25A						
TEK300SC	15V	20A						
TEK300SD	24V	12.5A						
TEK300SE	48V	6.3A						
TEK300D12	5V	30A	12V	12A				
TEK300D13	5V	30A	15V	10A				
TEK300D14	5V	30A	24V	6.2A				
TEK300T16	5V	30A	12V	10A	12V	2A		
TEK300T17	5V	30A	15V	8A	15V	2A		
TEK300Q56	5V	30A	12V	10A	12V	2A	5V	2A
TEK300Q57	5V	30A	15V	7A	15V	2A	5V	2A
TEK300Q86	5V	30A	24V	5A	12V	2A	12V	2A

* Factory configurable for (+) or (-) output

TEK300 Timing Signal Diagram



TEK300 Power Derating Curve



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