

TC21M POWER BRICK ADAPTER

TECTROL 35 WATT PROGRAMMABLE AC/DC POWER ADAPTER



The TECTROL TC21M *Power Brick* offers a selection of programmable output voltages providing the flexibility to adapt to multiple application requirements in the Medical, Internet Telephony Equipment and Communications industries.

The TC21M provides 35 Watts of highly reliable DC power with an output voltage varying from 5 to 59 VDC. The actual output voltage is user-selectable by matching the TC21M with the appropriate TECTROL *Smart Cable*.

The TC21M utilizes an impact resistant enclosure material for maximum durability and presents a standard IEC inlet socket and D-Sub output connector.

FEATURES

- 35 Watt output power
- Programmable output voltage provides flexibility for multiple applications from 5 to 59 VDC
- *Smart Cable* assemblies provide a choice of 6 standard outputs (5, 12, 18, 21, 24 or 59 VDC) with additional voltages available on request
- Compact profile (25 in³) minimizes space requirements
- Programmable current limit via cable assemblies from 0 to >3 Amps (3 Amp maximum normal operating current)
- Suitable for many Medical Equipment applications
- Robust construction using Lexan 940 polycarbonate material guarantees high durability in demanding environments
- Strenuously HALT tested to ensure maximum reliability and long life

AGENCY COMPLIANCE

- UL/cUL Approval
- TUV Approval
- CE Mark (LVD & EMC Directive)
- UL 2601 and IEC 60601 Approved
- IEC 60950, UL 1950 and EN 60950 Approved

EMISSIONS AND IMMUNITIES

- EN 55022 Class B Emissions
- EN 61000-3-2 Class D Harmonic Compliance
- EN 61000-4 Compliance
- FCC Class B Emissions
- FCC Marking

MAX OUTPUT POWER	OUTPUT (Volts)	OUTPUT (Amps)	SMART CABLE MODEL	POWER BRICK MODEL
15 W	5	3.0	014-140206-4	TC21M
36 W	12	3.0	014-140205-4	
34 W	18	1.9	014-140203-4	
35 W	21	1.7	014-140202-4	
35 W	24	1.5	014-140201-4	
35 W	59	0.6	014-140204-4	

TECHNICAL SPECIFICATION

INPUT SPECIFICATION

High Line Input	90 to 264 Vrms, 50/60 Hz
AC Line Input	≤ 1.5 Arms max steady state
Line Inrush Current	≤ 40 Apk cold start @ 230 VAC
Harmonic Compliance	N/A (below limits defined by EN 61000-3-2)
Leakage Current	≤ 300 µA (inclusive of mains cable)
Transients & Surges	Complies with IEC/EN 61000-4 Parts 4 & 5
Hold Up Time	≥ 15 mS @ 120 VAC; 35 W output

OUTPUT SPECIFICATION

Programmable Output	5 to 59 V (selectable by output cable)
Static Voltage Regulation	± 5% (line, load regulation, temperature)
Ripple & Noise (PARD)	< 200 mV pp (20 Hz to 20 MHz bw)
Output Current	5 V @ 3 A to 59 V @ 0.59 A
Module Power	35 W continuous operation @ 35° C 25 W continuous operation @ 55° C
Output Enable	To prevent damage to equipment connected by incorrect cable sets. Pin 5 connected to Pin 6 of output connector by cable to correctly "enable" power module output.

PROTECTION

Over Current Protection	Programmable by appropriate output cable (dependent upon voltage range selection). Indefinite s/c protected (non latching). Internal protection circuit.
Over Voltage Protection Indications	Optional Green LED mounted in output cable connector assembly.

MECHANICAL FORMAT

Input/Output Connector	AC Input: IEC C14 connector. DC Output: 9-pin D-Sub connector that connects to dedicated cable assemblies to configure the module for desired output voltage and current limit.
Mechanical Outline	5.9" (l) x 2.9" (w) x 1.5" (h) 150 mm (l) x 74.5 mm (w) x 37.5 mm (h)

ENVIRONMENTAL

Temperature Range	Operational: 0° to 35° C, 35 W rating, linearly derating to 25 W at 55° C
Cooling	Natural convection cooled only, any orientation. Maximum case temperature rise ≤ 60° C above ambient and +85° C max.

