Tokamak™ DC-8+ Multi-Protocol/RS-485

a non-powered Bus in and Bus out.

Product Overview:

Tokamak™ is a Plenum-Rated Rack-Mount, din mount, or wall-mount low-voltage power supply & 485 agnostic data hub with 8 motor ports and 8 Combi ports and

Tokamak™ can also be used to harvest energy for up to 8 Reactor's or Neutron PDUs

When used as an 8-shade power supply, each rear port can provide up to 4Nm motors. And each front port can power up to 2Nm motors. The half-rack sized enclosure can be joined

16 DC motors per 1RU or can be stacked together inside a 20" wall box. The product can be used as a stand-alone solution in small 8-Shade systems or to harvest power for us to 176 shades via up to 8 Reaktor's or Neutron units. Grow your system by adding other Neutron, Reaktors, Stellarators, & Colliders or 485 data hubs for unlimited 485 node systems.



- Input: 90 ~ 264 VAC, 1.2A (IEC-C14)
- Rear Motor Output: 12-56 VDC (8Nm)
- Front Combi ports Output: 24V DC
- Rear mounted On/Off Power Switch
- Material: Powder coated steel enclosure
- Dimensions: (1.75 in. H) x (8.51 in. W) x (10.5 in. D)
 (4.3cm H) x (21.58cm W) x (24.81cm D)
- Maximum Wiring Distance
 - Rear motor ports: Up to 100m per motor port. 4 or 5 position wire with 12AWG for power
 - Front Combi ports: Up to 50m per motor port. UTP with minimum 23AWG
 - Front device ports: Up to 75m per device port
- Operating Temperature Range: Ambient temp.
- Shipping Weight: 5.1 lbs. [2.17kg]
- Indoor use only
- 10-YEAR Transferable Warranty

- Features summary:
- Enables power for up to 8 Low Voltage DC motors per unit (11A MAX)
- Built-in 8-port 485 Data Hub
- Works with Many Popular Motors;
 - o All Lutron® Low Voltage RF and 485 Motors
 - o All Somfy® 24v Low Voltage RTS®, Zigbee, or 485 Motors

together to allow for up to

- o All Q-Motion® Low Voltage Motors
- All Power Shades® Low Voltage Motors
- o All Nice® Low Voltage Motors
- Optional Voltmeter enables display of real-time power output
- Certified IEC 62368-1 & CB 60950-1
- Meets USA EISA 2007
- Meets Energy Efficiency DOE Level VI
- Meets Code of Conduct Version 5 Tier 2
- Over Current Protection
- Over Temperature Protection
 - Over Voltage Protection

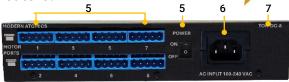


OPTIONAL VOLTMETER

Front View Connections & Indicators:



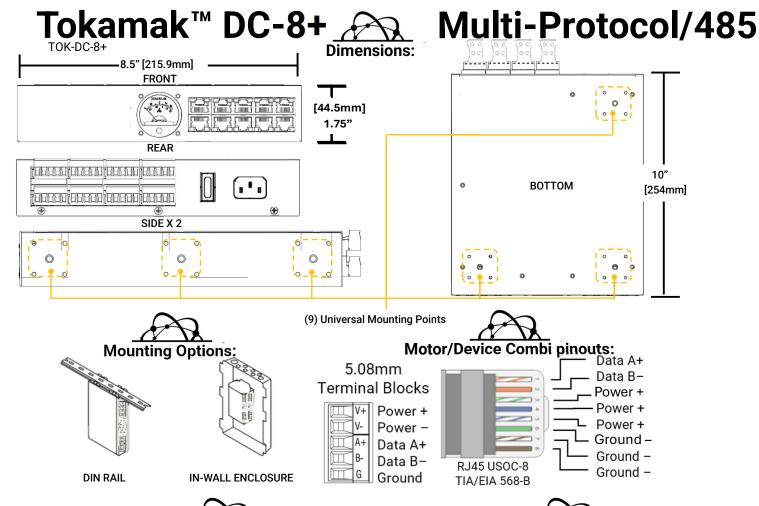
	ELEMENT	DESCRIPTION
1	Voltmeter	Optional Power Voltage Meter
2	COMBI PORTS	(8) SHADE/DEVICE/PDU HARVEST
3	BUS IN	(1) NON-POWERED
4	BUS OUT	(1) NON-POWERED
5	Motor Ports	(8) DC motors max ≤4Nm per port
6	Power Switch	Turns off all power outputs
7	IEC 14 Port	AC Power Cable Included
8	Plenum Rated	Enclosure
9		



Rear View



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485 DEVICES:

485 Decoflex® keypads (V2)

485 RF Receivers/Transceivers from Somfy® (V2 only) and SILABS®

Compatible Devices:

485 CODECS / DATA HUBS from Somfy® and SILABS

RF DEVICES: Via RF Receivers/Transceivers from Somfy® (V2 only) and SILABS®

PDU HAVESTING:

Reaktor DC-22, and Bond Editions

Neutron DC-22, Collider PoE-24, and Stellarator AC-24

MOTORS: NOW COMPATIBLE WITH Q-MOTION MOTORS UPTO 200'

Most 485 DC and AC Motors from any Brand and Low Voltage RTS® and Zigbee

LONG and MID Rack Ears and 1RU JOINER KITS NOT INCLUDED & sold separately

OPTIONAL VOLTMETER & WALL MOUNTED BOX AVALIABLE

Included in Box: (Standard Edition)

- (1) Tokamak PDU
- (8) 5.08 pitch Terminal Blocks
- (8) 3" Wire ties
- (1) 2m IEC AC Cable
- (2) Universal Rack Ears
- (2) Universal Din Rail Brackets with stop
- (4) #10-32 Rack Screws
- (10) M3.5 Universal mounting screws

SAFETY STANDARD APPROVAL











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