Tokamak™ DC-10 Multi-Protocol/RS-485

WINNER

Product Overview:

Tokamak™ is a Plenum-Rated Rack-Mount, din mount, or wall-mount low-voltage power supply & 485 agnostic data hub with 10 motor ports and 8 device ports and 1 Bus in.

Tokamak™ can also be used to harvest energy for up to 8 PDU's

When used as an 10-shade power supply, each rear port can provide up to 8Nm motors.

The half-rack sized enclosure can be joined together to allow for up to 20 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 10-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.



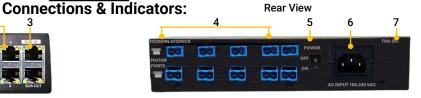
- Input: 90 ~ 264 VAC, 1.2A (IEC-C14)
- Rear Motor Output: 12-24 VDC (8Nm)
- Front Device/ PDU Harvest
- Rear mounted On/Off Power Switch
- Material: Powder coated steel enclosure
- Dimensions: (1.75 in. H) x (8.51 in. W) x (10.5 in. D)
   (4.3cm H) x (21.58cm W) x (24.81cm D)
- Maximum Wiring Distance
  - Rear motor ports: Up to 100m per motor port. 2 position wire with 12AWG for power
  - Front PDU ports: Up to 50m per motor port.  $\label{eq:continuous} \text{UTP with minimum 23AWG}$
  - 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

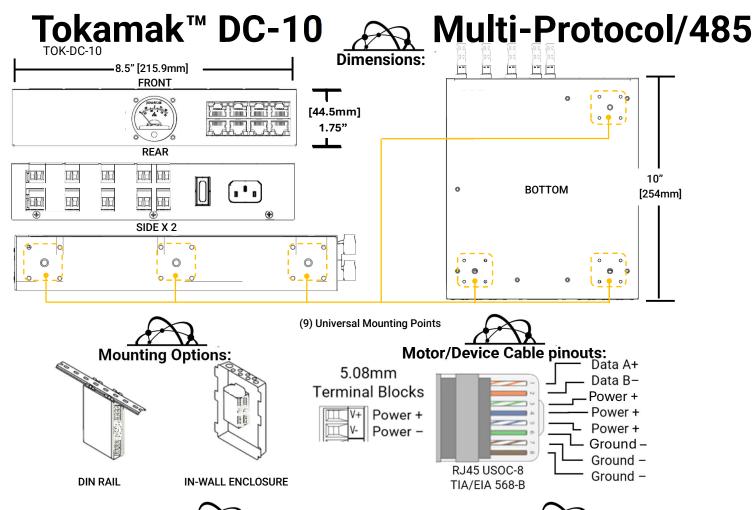


- Enables power for up to 10 Low Voltage DC motors per unit (11A Max)
- Built-in 8-port 485 Data Hub and non-powered Bus in and Bus out
- Works with Many Popular Motors.
  - All Lutron® Low Voltage RF Motors
  - All Somfy® 24v Low Voltage RTS®, or Zigbee Motors
  - o All Q-Motion® Low Voltage Motors
  - o All Power Shades® Low Voltage Motors
  - o All Nice® Low Voltage Motors
- Built-in 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



	ELEMENT	DESCRIPTION
1	Voltmeter	Indicates Output Power Voltage
2	COMBI	(8) Motor / PDU / Device
3	BUS IN/OUT	Non Powered
4	Motor Ports	(10) DC motors max 8Nm per port
5	Power Switch	Turns off all power outputs
6	IEC 14 Port	AC Power Cable Included
7	Plenum Rated	Enclosure
8		
9		





#### 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-8/16/24, and Stellarator AC-24

### MOTORS:

Most brands Low Voltage Horizontal stack may require optional din rail kit

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

OPTIONAL VOLTMETER AND WALL MOUNTED ENCLOSURE ALSO AVALIBLE

# Included in Box: (Standard Edition)

- (1) Tokamak PDU
- (10) 5.08 pitch Terminal Blocks
- (10) 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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