Tokamak[™] TOK-DC-###

Tokamak™ DC-8/10/16/20 PDU RF / RS-485







Tokamak™ is an award-winning Plenum-rated Rack-Mount, Din-Rail-Mount, or Wall-Mount low-voltage Power Distribution Unit & agnostic 485 eight-port data hub with 8 to 20 motor ports and

2 non-powered BUS IN and BUS OUT ports for extending the 485 bus line to other PDUs, data hubs, or control system processors.

Tokamak™ is also used to harvest energy for up to 8 ESM PDU's such as Reaktors, Neutrons, or Colliders using one

of the eight Combi-ports. These combi-ports can also be used to power up to eight 485 keypads, RF transceivers or RF receivers.

An optional Voltmeter can show the current voltage of the system which is especially useful in a mixed voltage shading system.



- Input: 90 ~ 264 VAC, 1.2A (IEC-C14)
- Rear Motor Outputs; 12~35 VDC (8Nm)
- Front Combi-Ports: 8 PDU Harvest / 2Nm Motor / Device
- Material: Powder coated steel enclosure
- Dimensions: (1.75 in. H) x (8.51 in. W) x (10.5 in. D)
 (44.5mm H) x (215.9mm W) x (254mm D)
- Maximum Wiring Distance
 - Rear motor ports: Up to 100m per motor port. 2, 4 or 5 position wire with 12AWG for power
 - Front PDU ports: Up to 50m per motor port.
 UTP with minimum 23AWG
 - Front device ports: Up to 50m per device port
- Operating Temperature Range: 0~70°C (> 40°C de-rating)
- Shipping Weight: 8.1 lbs. [3.67kg]
- Indoor use only



- Optional Rear-mounted semi-recessed On/Off Power Switch
- Optional Voltmeters enables display of real-time DC Voltage
- Optional Voltmeter gauge orientation 12, 3, 6 or 9 o'clock
- Optional Wall-Mounted 16'x12"x4" enclosure with Lid
- Optional 5.08pitch screw down removable Terminal blocks
- Optional PDU vertical and horizontal joining
- Optional Voltage Selection from 12VDC to 35VDC



- Enables power for up to 20 Low Voltage DC motors per unit (22A Max)
- Built-in 8-port 485 Data Hub
- Works with Many Popular Motors.
 - All Lutron® Low Voltage & RF Motors
 - o All Somfy® 24v Low Voltage SDN®, RTS®, or Zigbee Motors
 - All Q-Motion® Low Voltage Motors
 - o All Power Shades® Low Voltage Motors
 - All Crestron® Low Voltage Motors
- 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
- EMC Performance:

0	EN55032	Class B conducted, class B radiated
0	FCC	Class B conducted, class B radiated
0	VCCI	Class B conducted, class B radiated

EN61000-3-2:	Meet class D
EN61000-3-3:	Meet regulation

EN61000-4-2: Air discharge: ±15KV, contact discharge: ±8KV

meet criterion A
EN61000-4-3: 80~1000MHz,3V.m,80%AM(1kHz),meet criterion A

EN61000-4-4: Impulse: ± 1kV applied to L,N,meet criterion A

EN61000-4-5: ± 1kV applied differential mode,meet criterion A

• EN61000-4-6: 0.15~80MHz,3Vrms,80%AM(1kHz),meet criterion A

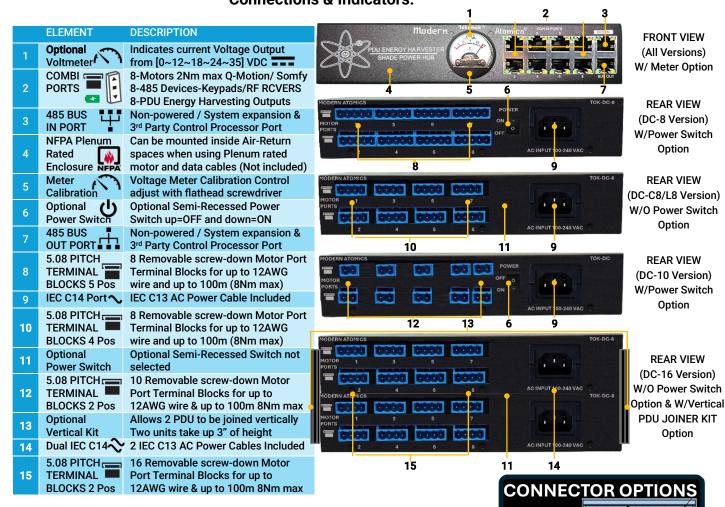
EN61000-4-8: 50 Hz or 60 Hz, 1A.m, meet criterion A



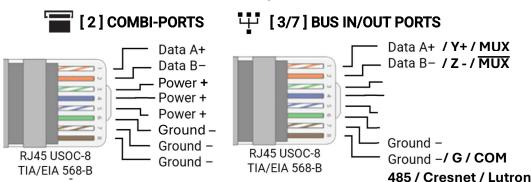
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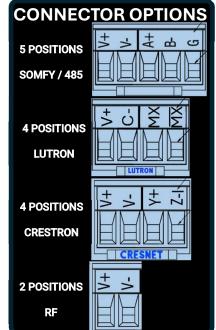
Tokamak™ DC-8/10/16/20 PDU TOK-DC-### **RF / RS-485**







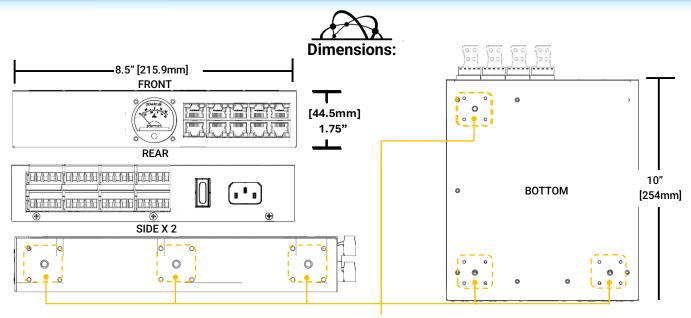






TOK-DC-### Tokamak™

Tokamak™ DC-8/10/16/20 PDU



Nine Rack/ Din Mounting bracket points



485 DEVICES:

485 Decoflex® Keypads (V2)

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

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, and Stellarator AC-24

MOTORS: All Somfy / All Crestron / All Lutron / All Q-Motion

Horizontal stack may require optional din rail kit

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

Tokamak is not a Lutron® or Crestron® approved power supply. Tokamak does not qualify as a Somfy® Power Distribution Device for the Somfy® UL Listing as a Shade Operator.



(1~2) PDU

(8~20) 5.08 pitch Terminal Blocks

(8~16) 3" Wire ties (4 and 5 Pole only)

(1~2) 2m IEC AC Cable

SAFETY STANDARD APPROVAL















Specifications are subject to change without notice











12 O'clock DEFAULT



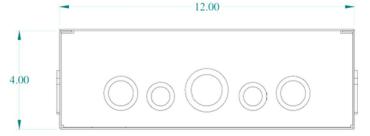
3 O'clock OPTION



6 O'clock OPTION

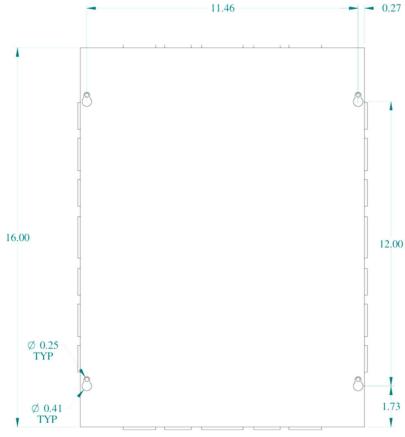


9 O'clock OPTION



FRONT VIEW





	PART NUMBER	MOTOR PORTS	TYPICAL MOTOR TYPE	TYPICAL BRANDS	VOLTAGE OPTIONS
	TOK-DC-8+	8	485	SOMFY® SDN®/ Q-Motion®	24
	TOK-DC-C8	8	485	CRESTRON®	24
	TOK-DC-L8	8	485	LUTRON ®	24 / 35
	TOK-DC-10	10	RF	Somfy® RTS® / Zigbee / Hunter Douglas® / BTX® / Power Shades®	12/18/24
	TOK-DC-16	16	485	Somfy® RTS® / Zigbee / Hunter Douglas® / BTX® / Power Shades® / Lutron® / Crestron® / Q- Motion®	12/18/24/35
	TOK-DC-18	18	485 /RF	Somfy® RTS® / Zigbee / Hunter Douglas® / BTX® / Power Shades® / Lutron® / Crestron® / Q- Motion®	12/18/24/35
	TOK-DC-20	20	RF	Somfy® RTS® / Zigbee / Hunter Douglas® / BTX® / Power Shades®	12/18/24

TOP VIEW