INSTRUCTIONS FOR STEALTH DC RECESSED MTRTS

Overview and dimensions



WARNING Risk of fire or electric shock. Only qualified, licensed electricians should install.

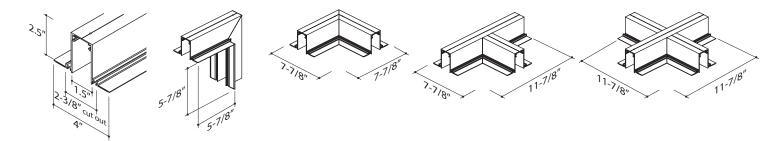
- 1. Read and review all instructions and diagrams prior to installation.
- 2. Disconnect power prior to installation. Turn off circuit breaker or remove fuse from fuse panel. (Turning off the light switch is insufficient to safeguard against electric shock.)
- 3. Electrical connections must conform to local codes and ordinances, or the National Electrical Code.
- 4. Wire the luminaire following the wiring diagram on the driver, or inside the box. Use UL listed wire connectors suitable for the size, type, and number of conductors. No loose strands or wires should be present. Secure wire connectors with UL listed electrical tape and wire nuts.
- 5. Restore electricity and test fixture.

NOTE: These safeguards and instructions are not intended to cover all possible conditions and circumstances.

NOTE:

- 1. Max wattage linkable per loop for 24VDC is 150W.
- 2. See MAX cable length chart for wire requirements.
- 3. Dimming modules are compatible to PWM dimming driver only.
- 4. To use drivers not on recommended list will require a compatibility test before installation.
- 5. Tracks can be continuously linkable without limitation and can divide into sections for separate circuits.
- 6. Minimum voltage per loop is 22VDC (measure at the end of the loop), under 22VDC per loop might cause abnormal function.
- 7. Calculating max wattage connection, save 20% buffer for linear modules, and 25% buffer for other modules.
- 8.Using a driver not in the recommended list may cause module flickering, unstable dimming and/or noise, even causing module failure.
- 9. When multiple drivers are use in the connection, make sure the connector without circuit is used to divide the loop.

10. When installing tracks, make sure to measuring the voltage without modules to see if the voltage is 24VDC, if the voltage drop is ≤0.1 V, or the voltage drop is over 0.1 V, make sure the connector is secured properly, warpage is not allowed in the connection, also check the cleanliness of the copper connector, copper connector can be cleaned using alcohol.



POWER FEED METHODS (Explained)

Note that most orders will come with connectors and power feeds installed at the factory for your specific order. All tracks will be specific for "Start", "Middle", "End" and "Top Powered Supply" for middle or end.

On-Board Integral

Initial Starter Track. 96W 120V/277V power source. Allows for below ceiling access of power supply. Non-Dimmable

> takes up 6.7" of space in track and does not allow for continuous

End Cap Powered

Initial Starter Track.
Includes End Cap Power
Feed for beginning of the
run with a remote driver.
72" Cable length.

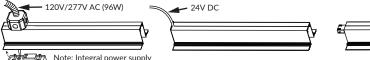
Adjacent Track Powered

Intermediate Track.
Includes electrical connector to receive power from adjacent track. (Mechanical hardware to connect to previous run is included.)

Top Powered Supply

Starter Track.

Includes Top Power Feed for continuing the run with an additional remote driver. (Mechanical hardware to connect to previous run is included). 72" Cable length.





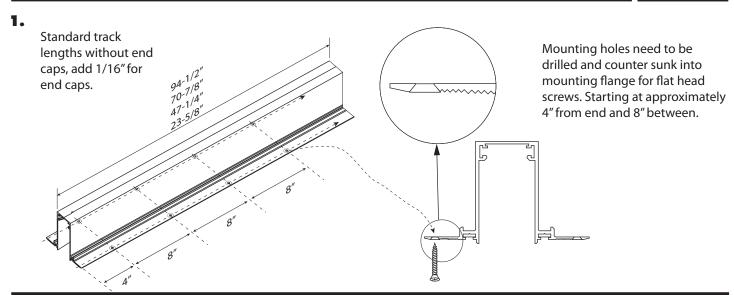


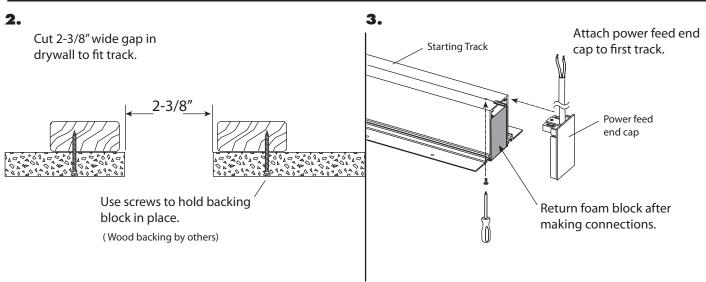
See remote driver page for driver information and wire requirements for max wiring distance.

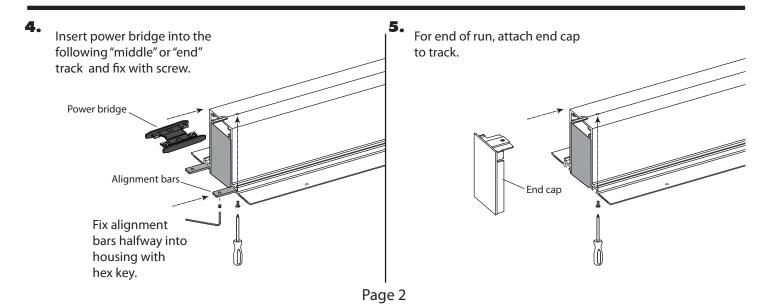
INSTRUCTIONS FOR STEALTH DC RECESSED MTRTS

Prepare for mounting





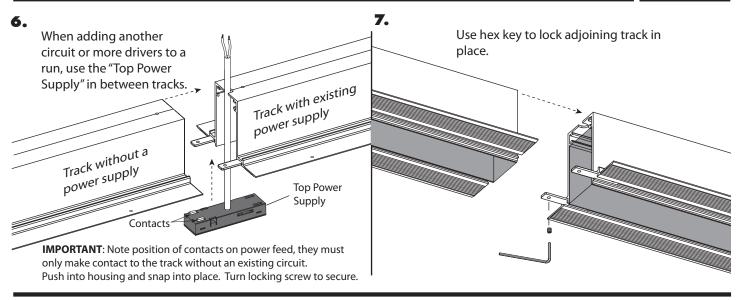


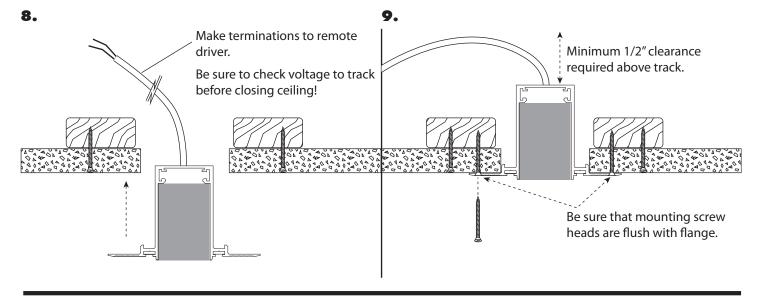


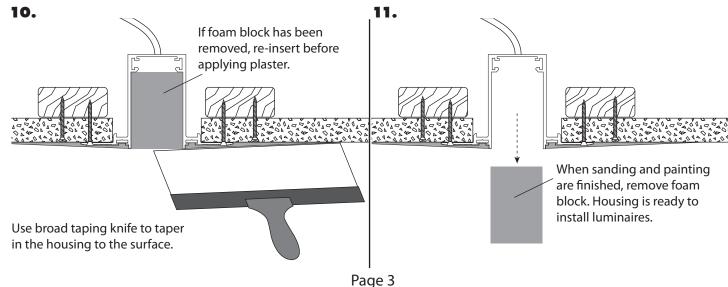
INSTRUCTIONS FOR STEALTH DC RECESSED MTRTS

Installing and finishing









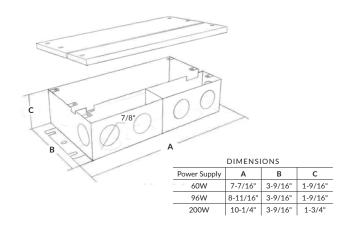


TYPE	PROJECT	
CATALOG#		

UNIDIM[™] 24V POWER SUPPLY 120V/277V (60W | 96W | 200W) 5-WIRE

- Built-in active Power Factor Correction (PFC) function
- Power Factor up to 0.98
- High efficiency: up to 85%
- Load: 10-100%
- · Flicker-free light output
- Dry, damp, and wet location

ModuLED's 120V/277V Universal AC input (60W | 96W | 200W) 5-Wire 24V Power Supply is a constant voltage, UL, cUL listed, Class 2, Type HL, FCC rated dimmable LED driver. Features include short circuit, over loading and over temperature protection; PWM output which does not change the color index; full protection metal case for dry, damp, and wet locations; phase dimming works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, TRIAC dimmers; 0-10V dimming is 0-10V/1-10V/Potentiometer/10V PWM 4 in 1; dimming range is 0-100%.







Specification

Model		LD533V024-1227-60-DUN-JB
Certificates		UL, cUL listed, Class 2 unit, Type HL rated, FCC
	DC Voltage	24V
	Rated Current	2.5A
Output	Rated Power	60W 96W 200W
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
	Voltage Range	100-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @ full load	0.98 @ 120VAC, 0.95 @ 277VAC
la a cut	THD (Typ.) @ full load	<20%
Input	Efficiency (Typ.) @ full load	83% @ 120VAC, 84% @ 277VAC
	AC Current (Max.)	0.5A @ 100VAC
	Inrush Current (Typ.)	14A, 50%, 780us @ 120VAC; 15A, 50%, 660us @ 277VAC
	Leakage current	<0.50mA
	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed
Protection	Over Loading	≤120% Hiccup mode, recovers automatically after fault condition is removed
	Over temperature	100°C ±10°C shut down o/p voltage, automatically recover after cooling

Specification continues on page 2

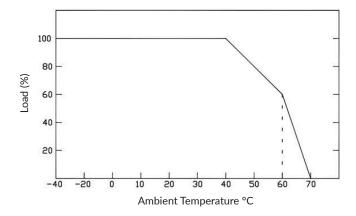




UNIDIM[™] 24V POWER SUPPLY 120V/277V (60W | 96W | 200W) 5-WIRE

	Working TEMP.	-40 ~ +60°C (see derating curve on page 2)				
	Working Humidity	20 ~ 90%RH, non-condensing				
Environment	Storage TEMP. Humidity	-40 ~ +80°C, 10 ~ 95%RH				
	TEMP. coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes				
	Safety standards	UL8750 + UL1310				
atus EMC	Withstand voltage	I/P-O/P: 1.88KVAC				
ety & EMC	Isolation resistance	I/P-O/P: 100MΩ / 500VDC / 25°C / 70%RH				
	EMC EMISSION	FCC Part 15 B				
	Net. Weight	1.1Kg				
Others	Size	7-7/16" L x 3-9/16" W x 1-9/16" H				
	Packing	10PCS/CTN				

Derating Curve*



^{*}To extend driver life, refer to the Derating Curve and derate according to the temperature.



UNIDIM[™] 24V POWER SUPPLY 120V/277V (60W | 96W | 200W) 5-WIRE

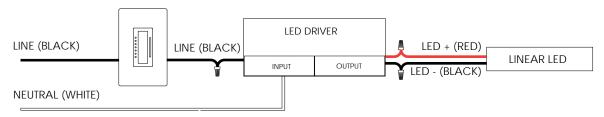
Wiring Diagrams

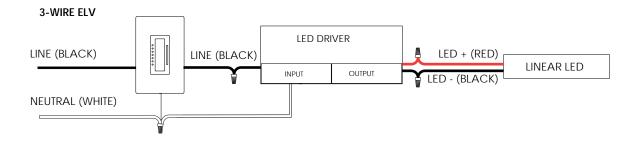
- Input wire Black and White to be connected to AC Line and Neutral, Green wire go to ground.
- Output wire Red to LED Positive side (+), Black to LED Negative side (-). High efficiency: up to 85%.
- Dimming cable DIM (+) Purple to 0/1-10V dimmer signal (+), DIM (-) Gray to 0/1-10V dimmer signal (-).
- Make sure to follow the wiring diagrams to avoid damaging the driver.

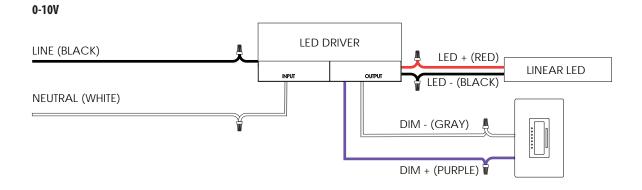
Using TRIAC/Phase cut dimming

- 1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line by connection.
- 2. Work with forward phase /leading edge, MLV and reverse phase /trailing edge, ELV, TRIAC dimmers.
- 3. Use dimmers with a power of at least 1.5 times the output power of the driver.

2-WIRE TRIAC/INCANDESCENT









UNIDIM™ 24V POWER SUPPLY 120V/277V (60W | 96W | 200W) 5-WIRE

Phase/Triac Dimmer Test List

Brand	Model Number (Dimmer)	Input Voltage	Dimming Range
	SCL-153PR-WH	100-130V	0-100%
	DVCL-153PR-WH	100-130V	0-100%
	DVWCL-153PH-LA	100-130V	0-100%
	CTCL-153PDH-LA	100-130V	0-100%
	TGCL-153PR-WH	100-130V	0-100%
	TGCL-153PH-WH	100-130V	0-100%
	MACL-153MH-LA	100-130V	0-100%
	MIR-600M	100-130V	0-100%
	CT-600PR-IV	100-130V	0-100%
	CT-600PR-WH	100-130V	0-100%
	CT-103PR-WH	100-130V	0-100%
	DV-600PR-BL	100-130V	0-100%
	DV-600PR-WH	100-130V	0-100%
Lutron	TG-600PR-LA	100-130V	0-100%
Lutron	TG-600PR-IV	100-130V	0-100%
	TG-600PR-WH	100-130V	0-100%
	TG-10PR-WH	100-130V	0-100%
	S-600PR-WH	100-130V	0-100%
	MRF2-6ND-120-AL	100-130V	0-100%
	MRF2-6CL-GR	100-130V	0-100%
	DZ6HD	100-130V	3-100%
	PD-6WCL	100-130V	1-100%
	SELV-300P	100-130V	1-100%
	MSCELV-600M	100-130V	0-100%
	MEF2-6ELV-120	100-130V	0-100%
	NTLV-600-277-WH	277V	0-100%
	ST-12P-277	277V	3-100%
	NTF-10-277	277V	0-100%

Phase/Triac Dimmer Test List (Continued)

Brand	Model Number (Dimmer)	Input Voltage	Dimming Range	
	VPI06-1LZ	100-130V	0-100%	
	TTI06-1LZ	100-130V	0-100%	
	IPL06	100-130V	0-100%	
	DZ6HD	100-130V	0-100%	
Leviton	6674	100-130V	0-100%	
	6672	100-130V	0-100%	
	TBL03	100-130V	0-100%	
	6602	100-130V	0-100%	
	6683	100-130V	0-100%	
	RHCL453PNICCV6	100-130V	1-100%	
Legrand	WSCL450TCCCV4	100-130V	0-100%	
	LSCL453PLACCV4	100-130V	0-100%	
Crestron	CLW-DELVEX-P-W-S	100-130V	0-100%	

0-10V Dimmer Compatible List

Brand	Model Number (Dimmer)	nput Voltage	Dimming Range		
Eaton	DF10P-C1	120V/277V	1.6-95%		
Leviton	DS7100-10Z	120V/277V	1-100%		
	DVSTV-WH	120V/277V	4.5-100%		
Lutron	DVTV-WH	120V/277V	8-100%		
	NFTV-WH	120V/277V	1.5-85%		



MAXIMUM CABLE LENGTH FOR SINGLE RUNS

LOAD A	T 24VDC	MAXI	MAXIMUM CABLE LENGTH TO THE LAST MODULE IN A CABLE RUN BY WIRE SIZE					
WATTS	AMPS	#18	#16	#14	#12	#10	#8	#6
0-12	0.0-0.5	150 ft	240 ft	300 ft	300 ft	300 ft	300 ft	300 ft
12-24	0.5-1.0	75 ft	120 ft	190 ft	300 ft	300 ft	300 ft	300 ft
24-36	1.0-1.5	50 ft	80 ft	120 ft	200 ft	300 ft	300 ft	300 ft
36-48	1.5-2.0	35 ft	60 ft	95 ft	150 ft	240 ft	300 ft	300 ft
48-60	2.0-2.5	n/a	45 ft	75 ft	120 ft	190 ft	300 ft	300 ft
60-72	2.5-3.0	n/a	40 ft	60 ft	100 ft	160 ft	250 ft	300 ft
72-84	3.0-3.5	n/a	30 ft	55 ft	85 ft	130 ft	220 ft	300 ft
84-96*	3.5-4.0	n/a	n/a	45 ft	75 ft	120 ft	190 ft	300 ft

^{*96} watts is the max wattage per run for Class 2 installation

