

Outdoor Power Extender with PoE Product Line for Light Poles with Intermittent Power

Ventev's Power Extenders enable continuous operation of access points, wireless surveillance cameras and other PoE devices installed on light poles with intermittent AC power supply. The specialized power system provides primary power to wireless radios and devices during day light hours, and then performs a fast-recharge at night when AC power is available to charge the battery bank.



Multi-Port Power Extender for Light Poles

Manuf.# PWR-XTDR-VNV235
TESSCO No. 586690



Power Extender for Light Poles

Sku 553902

System Highlights

- Designed for street lights or light poles with intermittent power (AC power controlled by a remote light sensor or timer)
- Battery bank provides 18 hours of power during the day, recharges within 6 hours at night
- Converts 120VAC input power to PoE+ for wireless radio and 35W max for common PoE devices such as cameras for most common PoE devices
- Powers one AP and up to 2 ports (max 35W power available) for PoE devices
- Outdoor PoE injector for power/data to wireless radio (i.e. AP)
- Unmanaged PoE switch to combine data from 1-2 cameras and pass to POE injector
- NEMA 4X enclosure includes latch locks for protection and security
- Seamless power transfer from AC site power to battery reserve ensures AP remains powered and radio rebooting is avoided

Applications:

- Municipal Wi-Fi deployments on light poles or street lights enabling traffic management
- Public Wi-Fi deployments on light poles or street lights at parks and recreation areas
- Outdoor security cameras deployed on light poles or street lights

Each system includes: power supply and charger, PoE Injector, battery bank w/ strap, wire harness and RJ45 feed-thrus

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Power Extender Product Line

	Single POE+ output 120/240VAC input	Multi POE+ output 120/240VAC input	Single POE+ output 277/480VAC input	Multi POE+ output 277/480VAC input
	TESSCO No. 553902	TESSCO No. 586690	TESSCO No. 588929	TESSCO No. 299428
Input Power	90 to 264VAC, 60 Hz		180 to 520VAC, 60 Hz	
Output power	Base voltage: 12 VDC Additional Voltage: PoE+ (802.3at), 35W, one port	Base voltage: 12 VDC Additional Voltage: PoE+ (802.3at), 35W from injector, one port and two PoE ports from unmanaged switch. Max output from both ports 35W	Base voltage: 12 VDC Additional Voltage: PoE+ (802.3at), 35W, one port	Base voltage: 12 VDC Additional Voltage: PoE+ (802.3at), 35W from injector, one port and two PoE ports from unmanaged switch. Max output from both ports 35W
Hours of Operation	18 hrs operation from battery at max power draw			
Gigabit PoE	10/100/1000 Mbps PWR+DATA OUT (Data + Power)			
Battery Backup System	Built-in charger w/sealed lead acid batteries. Automatic switch-over to battery. Low Voltage Disconnect included (disconnect voltage 10.5VDC, reconnect voltage 12.5VDC)		Built-in charger w/sealed lead acid batteries. Automatic switchover to battery. Low Voltage Disconnect included (disconnect voltage 10 VDC, reconnect voltage 12.5VDC)	
Battery Charger current rating	15A max		10 A max	
Battery	54 Ahr Partial State Of Charge sealed lead acid battery. Estimated usable life is 4-5 years	100 Ahr Partial State Of Charge sealed lead acid battery. Estimated usable life is 2-3 years	54 Ahr Partial State Of Charge sealed lead acid battery. Estimated usable life is 4-5 years	100 Ahr Partial State Of Charge sealed lead acid battery. Estimated usable life is 2-3 years
System Protections	Low Voltage Disconnect, DC input fuse protection, short circuit protection (auto-reset)			
Terminal blocks	AC with 3 phase, 3PST, 2 position switch, DC for 12V and ground			
Operating Temperature range	-25C to +50C (-13F to + 122F) Includes temperature consideration for the battery(s)			
Enclosure	NEMA 4X white aluminum enclosure Includes pad lockable latches & mounting flanges			
Enclosure Dimensions	18"H x 16"W x 12"D	26"H x 16"W x 12"D	18"H x 16"W x 12"D	26"H x 16"W x 12"D
Enclosure Ports	One port for AC-input Two ports for RJ45 I/O	One port for AC-input, four ports for RJ45 I/O	One port for AC-input Two ports for RJ45 I/O	One port for AC-input, four ports for RJ45 I/O
Weight with batteries	75 Lbs	100 lbs	75 Lbs	100 lbs
Included but not installed	Battery harness, 1 hole plugs, 3 RJ45 glands			