

VersaTEK Small

LED OFF-Roadway
Series



Versatility by Design

The VersaTEK Small Off-Roadway Series is designed to be one of the safest & easiest luminaires to install & maintain, delivering the performance needed for demanding offset roadways, interstate highways, & more while maximizing total cost of ownership over the installed life of the system.

Designed with safety in mind for both motorists and maintenance crews, VersaTEK's high-performance optics and ability to tilt for max coverage, uniformity, and visibility, helping to create safer roadway environments under all nighttime driving conditions.

Wider pole spacing and broad multi-lane coverage can help to significantly reduce pole counts, while eliminating secondary pole arms helps lower infrastructure, pipe, and wire costs. The result is up to 70-80% combined energy, maintenance, and infrastructure savings over the system's installed life.

For added safety and serviceability, quick tool-free access, integral VersaKICK door kickstand and optional tool-free removable Power Door allows all critical electrical items to be replaced in less than 15 seconds. Minimizing lift-truck time and roadway disruptions, maintenance can be completed faster, safer, and more efficiently.

Key Features, Details & Specs

- 4,577 to 28,325 delivered lumens w/ efficacies up to 188+ LPW
- True 50-400+ watt HID replacement (70%+ energy savings)
- (3) slipfitter, round/square fixed & adjustable pole arm, mast arm mount options
- Performance Selector option for field-adjustable output ranging from 30-100%
- LEOLink ILS™ Intelligent Lighting System & wireless 'NB01P' smart controller option
- Next-gen performance LED platform, Site & Area, Roadway optics & shielding
- 2700K, 3000K, 4000K & 5000K CCT options available (including 80CRI options)
- Weighs only 20-22 lbs. for easy & safe single person installation
- Tool-free access with optional tool-free removable electrical 'Power Door'
- 10kV integral surge standard, 20kV extreme surge option available
- Entire luminaire & optical assembly is rated IP66
- 50°C (122°F) high-ambient rated standard for maximum electrical component life
- A360 die-cast low copper content alloy (< 0.6%) for max paint adhesion & life
- 5,000-hour salt spray finish standard (coastal finish available)
- 3G vibration rated suitable for high winds, overpasses, bridges, etc.
- Tested before & after rigorous 2-hour burn-in cycle
- BAA compliant, BABA option available, assembled in the USA (San Jose, CA)
- LEOTEK factory 10-year warranty is standard

Typical Applications

Rest Areas & General Parking
Toll Plazas
Weigh Stations
On-Ramps & Off-Ramps
Interstate Highways
Bridges & Overpasses
Overpass & Misc. Signage
Municipal Roadways



Integral Tool-Free Access Design

Tool-free electrical access & removable hinged door w/ integral VersaKICK fixed open door kickstand design for ease of installation or maintenance (hassle-free design compatible w/ most lineman safety gloves)



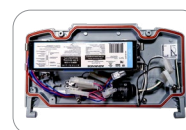
Hassle Free Installation & Maintenance Features

Optional terminal block, a self-centering tenon mount 'star' design assists with leveling to a tenon and a retrofit friendly quick mount pole arm (pole arm mount retrofits up to 5.25" bolt spacing for easy single person no drill install)



Tool-Free Removable Power Door Option

All serviceable electrical components mounted to a Power Door that is accessed & removable without tools in less than 15 seconds (undo MOLEX connectors, push two spring clips to unlock door, slide forward to remove)



VersaTEK SMALL LED OFF-Roadway Series



'MAF' mast arm fitter mount (w/ optional 'PCR7CR' shown)

Ordering Information

Sample Catalog No. VTSOR-36A-MV-50K7-WR-GY-P9-MAF-PCR7CR-TB-SP2-WL1-PWRD-SF277-BABA

Product*	LED Code	Voltage	Color Temp CRI	Optical Distribution	Finish*	Performance Code*	Mounting Options
VTSOR VersaTEK Small OFF-Roadway	36A 72A 36 or 72 LEDs Gen-A	MV 120-277V HV 347-480V	27K7 2700K, 70CRI 30K7 3000K, 70CRI 40K7 4000K, 70CRI 50K7 5000K, 70CRI 30K8¹ 3000K, 80CRI 40K8¹ 4000K, 80CRI 50K8¹ 5000K, 80CRI	NR Narrow Roadway MR Medium Roadway WR Wide Roadway T2R Type-2R T2F Type-2F T3R Type-3R T3F Type-3F T4R Type-4R T4F Type-4F T5 Type-5 ORR Optics Rotated Right ORL Optics Rotated Left	BK Black DB1 Dark Bronze (RAL8019) WH White GY Gray CF Coastal Finish	P1 P2 P3 P4 P5 P6 P7 P8 P9* P10 P11	SF² Slipfitter w/ Wire Leads (in UL splice compartment) SFH³ Slipfitter w/ S/O Cord Exiting Housing Bottom (3-wire S/O cord, 16AWG, 4' exit length) SFC³ Slipfitter w/ S/O Cord Exiting Center of Fitter (3-wire S/O cord, 16AWG, 4' exit length) SPM Universal Square Pole Arm Mount RPM Universal Round Pole Arm Mount MAF Horizontal Mast Arm Fitter (compatible w/ 1-5/8", 2-3/8" and 3" O.D. tenons) ASPM Universal Square Pole Adjustable Arm Mount ARPM Universal Round Pole Adjustable Arm Mount
*If Build America, Buy America Act (BABA) compliance is required, please refer to 'BABA Domestic Build Option' located under 'General Options' and refer to footnote #19 for additional details.							
*Consult factory for custom finish options, pricing & leadtimes.						**36A is P9 max	

Driver* & Control Options (*0-10V drivers are standard)	General Options	General Accessories*
D4I^{4,8} DALI D4i Driver TLR4U^{4,5,8} DALI 4-PIN Twist Lock Receptacle (upper housing receptacle location) TLR4L^{4,5,8} DALI 4-PIN Twist Lock Receptacle (lower driver door receptacle location) PCR7CR^{4,10} ANSI 7-wire Control Ready Receptacle SC Shorting Cap (factory installed) LLPC⁶ Long Life Photocontrol PS⁷ Field Adjustable Performance Selector PND1⁸ Part Night Dimming V1 PND2⁸ Part Night Dimming V2 PND3⁸ Part Night Dimming V3 MSL3^{9,10} Motion Sensor w/ L3 Lens MSL7^{9,10} Motion Sensor w/ L7 Lens MSL3P^{9,11} Motion Sensor w/ L3 Lens w/ PCR7 MSL7P^{9,11} Motion Sensor w/ L7 Lens w/ PCR7 LEOLink ILS™ Intelligent Lighting System¹² * See VTSOR specification sheet for LEOLink ordering & system details * (refer to LEOLink ILS specification sheets for complete specification & ordering information)	AIM45¹³ Slipfitter Factory Pre-aimed at 45° SS Slipfitter Set Screw (replaces standard slipfitter set bolts) TFL Tamper free latch (driver electrical door) TB² 3-position Terminal Block SP2¹⁴ 20kV/10kA Extreme Surge, Fail-to-On LSSP2 20kV/10kA Extreme Surge, Fail-to-Off WL Wattage Label, ANSI C136.15-2015 compliant WL1 Wattage Label, ANSI C136.15-2020 compliant DSC Optional Driver Door Safety Cable PWRD Power Door Option (tool-free removable door w/ serviceable electrical items) SFXXX¹⁵ Single Fuse ('XXX' = specify 120, 277, 347V) DFXXX¹⁵ Double Fuse ('XXX' = specify 208, 240, 480V) 5WSO¹⁶ 5-wire S/O Cord (16AWG, 4' length w/ dimming leads) SOXXYY¹⁷ Special S/O AWG & Cord Length in Feet ('XX' = specify AWG 12, 14 or 16) ('YY' = specify S/O cord length 06, 08, 10, 15, 25) BLS¹⁸ Enhanced Back Light Shield (factory installed) VHS¹⁸ 80 Degree Cutoff Shield (factory installed) FSS¹⁸ Front Side Shield (factory installed) CSS¹⁸ Cul-de-sac Shield (factory installed) BABA¹⁹ Build America, Buy America Act Compliant (meets Oct. 1, 2026 final US assembly, 55% content material requirements)	Shield Accessories TBS-VTS Top, Bottom Shield LRS-VTS Left, Right Side Shield 4SS-VTS 4-sided Shield BDS-VTS Barn Door Shield VS-VTS Poly Vandal Shield WG-VTS Wire Guard BLS-VTSXXA^{18,20} Enhanced Backlight Shield (snap-on) VHS-VTSXXA²⁰ 80-Degree Cutoff Shield (snap-on) FSS-VTSXXA^{18,20} Front Side Shield (snap-on) CSS-VTSXXA^{18,20} Cul-de-sac Shield (snap-on) ('XXA' = specify 36A or 72A LED Code) BSK Bird Deterrent Spider Kit Controls Accessories LLPCMV Long Life Photocontrol MV LLPCHV Long Life Photocontrol HV FSIR100 MS Configuration Tool

1. 80CRI option only available in 3000K, 4000K & 5000K CCTs and may have longer leadtimes (contact factory).
2. 'TB' Terminal Block is not available for use with the 'SF' Slipfitter mounting option. 3. 'SFH' & 'SFC' options include 16AWG 3-wire S/O cord w/ a 4' exit length & last 6" of insulation removed.
4. For full 100% DALI functionality a 'PCR7CR', 'TLR4U' or 'TLR4L' must be selected w/ 'D4I' DALI driver option. DALI compatible node or sensor (by others). 'D4I' DALI driver not compatible w/ 'NB01P05/10' smart controller.
5. 'TLR4U' & 'TLR4L' twist lock receptacle options requires 'D4I' driver option to be selected.
6. 'LLPC' requires 'PCR7CR' option to be selected (does not ship installed, included w/ luminaire). 7. 'PS' Performance Selector enables field adjustable light output dimming control from specified Performance Code, not compatible with DALI.
8. 'PND' options only available w/ 'MV' 120-277V (contact factory for 'HV' 347-480V availability). 9. Motion Sensor options only available w/ 'SPM', 'RPM' and 'MAF' horizontal mounting options.
10. 'MSL3', 'MSL7' motion sensors require secondary controls for ON/OFF capability (ex. time clock or 0-10V by others). Contact factory for Motion Sensor availability w/ 'PCR7CR' control ready receptacle for use with wireless 7-PIN control node (by others).
11. 'MSL3P', 'MSL7P' motion sensors includes a PCR7 photocontrol receptacle for use with a twist lock photocontrol for ON/OFF capability (for use with our 'LLPC' or photocontrol by others, PINS 6 & 7 are not wired for controls, not compatible w/ wireless nodes).
12. 'NB01P05/10' requires 'PCR7CR' option, only available in 'MV' 120-277V (contact factory for 'HV' 347-480V). 'NB01P05/10' is a cellular based NEMA 7-PIN Smart Controller, RenAI subscription and network data plan required (see spec sheet for details).
13. Slipfitter options 'SF', 'SFC', 'SFH' ship pre-aimed at 45° from the factory if 'AIM45' is specified. 14. 10kV/5kA surge, fail-to-on is included standard ('SP1'). 15. For single or double fusing, 'XXX' must specify required voltage.
16. '5WSO' only available with 'SFC' & 'SFH' options. Not available w/ 'PCR7CR', 'PS', 'PND', 'D4I', 'TLR4U', 'TLR4L' options. 17. 'SOXXYY' option, 'XX' & 'YY' must specify S/O cord AWG & length (only available w/ S/O cord mounting options).
18. 'BLS-VTS', 'FSS-VTS' and 'CSS-VTS' shields are not available for use with the 'T5' Type-5 optical distribution.
19. 'BABA' option must be specified to meet Oct. 1, 2026 Build America, Buy America Act (BABA) guidelines. Failure to specify the 'BABA' ordering code will result in receiving non-BABA compliant product (w/ no recourse for an RMA, product exchange or refund).
20. For snap-on shield accessory items, 'XXA' must specify 36A or 72A LED Code to receive the proper quantity of shields required for field installation.

Nominal Performance Data 4000K & 5000K

(36A, Type-2R, 70CRI, 25°C ambient)

Performance Code	P1	P2	P3	P4	P5	P6	P7	P8	P9
Lumens¹	5,406	6,982	8,507	9,983	11,408	12,783	14,109	15,383	16,609
System Wattage (W)	30	39	49	59	68	77	86	97	106
Efficacy (Lm/W)	180	179	174	169	168	166	164	159	157
HID Replacement	50-100W	175W	200W			250W			350W

(72A, Type-2R, 70CRI, 25°C ambient)

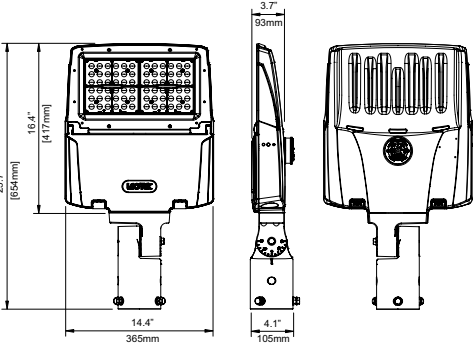
Performance Code	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
Lumens¹	13,932	15,476	16,996	18,494	19,968	21,419	22,847	24,251	25,632	26,690	28,325
System Wattage (W)	74	83	92	101	109	117	126	135	144	155	165
Efficacy (Lm/W)	188	186	185	183	183	183	181	180	178	174	172
HID Replacement	250W			350W					400W+		

1. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance and ambient temperatures.

* Please refer to VersaTEK product specification sheets for additional ordering information & product details *

'SF' Slipfitter Mount Dimensions

(5-wire leads in UL splice compartment, shown w/ optional 'PCR7CR')



LEOTEK
1955 Lundy Ave., San Jose, CA, 95131
1.408.380.1788



www.LEOTEK.com



orders@leotek.com

© 2026 Leotek Electronics U.S.A. Corporation
All specifications are subject to change without notice and all reported values are nominal/typical measured under lab conditions @ 25° C (77° F).
VTSOR Sell Sheet 09-23-26 V1