







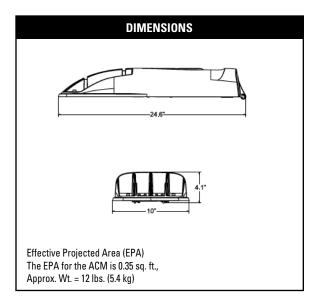


## **PRODUCT OVERVIEW**



# **Applications:**

Roadways Off ramps Residential streets Parking lots



### **STANDARDS**

Rated for -40°C to 40°C ambient CSA Certified to U.S. and Canadian standards Complies with ANSI: C136.2, C136.10, C136.31, C136.15, C136.37

## **Government Procurement**

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to <u>www.acuitybrands.com/resources/buy-american</u> for additional information.

# **Features:**

#### **OPTICAL**

AutoConnect utilizes the most advanced optical technology. Durable, precision optical control is obtained with new silicone materials that permit superior mold detail and denser LED population for a more visually comfortable appearance.

Silicone optics are superior to other polymeric materials in the areas of; optical efficiency, thermal performance, and reduction in dirt accumulation, all of which can lead to long term lumen degradation and a shift in optical distribution. Also, because silicone allows for the molding of fine details as well as thick sections, it produces the most crisp, clean and well-defined lighting distributions available.

Silicone optics paired with modern LED's allow the AutoConnect to take full advantage of both technologies.

Lighting Performance is comparable to 150-250W HPS roadway luminaires.

Correlated color temperature - 4000K, or optional 2700K, 3000K or 5000K, all 70 CRI minimum. Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available in Type II, III, IV & V roadway distributions.

#### **ELECTRICAL**

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected of 40-60% over comparable HID luminaires.

Robust Surge Protection: Two different surge protection options provide a minimum of ANSI C136.2 10kV/5kA or 20kV/10kA protection.

Luminaire ships with a 0-10v dimmable driver or DALI D4i driver. Luminaire is continuous and step dimming capable via AO option or other installed controls.

#### **MECHANICAL**

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation

Rigorous pre-treatment and paint process yields a finish that achieves a scribe creepage rating of 10 (per ASTM D1654) after 5000 hours exposure to salt fog chamber (operated per ASTM B117). The optional CR finish uses an anodized basecoat with a polyester topcoat to achieve a scribe creepage rating of 10 after 10,000 hours.

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" 0.D.) diameter. Provides a 3G vibration rating per ANSI C136.31

#### **CONTROLS**

The Acuity designed ANSI 7-pin receptacle is available, which supports traditional locking style photocontrols such as the Extreme long-life solid-state locking style photocontrol - PCLL (20 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

The DC Connect option is a factory embedded low voltage dusk to dawn photocontrol that increases longevity vs. line voltage controls and also eliminates the need to separately inventory controls. Integral nLight rSDGR control is also available to provide local or network on/off/ dim control plus robust outdoor motion detection and response at up to 40' mounting heights.

The LocalConnect option provides a simple means to collect luminaire attribute data, asset location information and execute point-to-point on/off/dim commands via secure Bluetooth link using smartphone platforms.

The GlobalConnect option enabled thru selection of receptacles and controls provides a smart city enabled solution utilizing long range network nodes to enable remote monitoring and control. Additionally, it can be equipped with sensor-ready technology to support Zhaga standard sensors.

Cell Connect is an embedded network photocontrol with cellular communication. It provides digital switching, precise dimming, and revenue grade metrology. Cell Connect leverage D4i drivers to communicate real-time data to UbiVu, a cloud-based asset management system.



# ORDERING INFORMATION

Series ACM AutoConnect

Medium

LED Roadway

Performance Packages P401 7400 Lumens, 46 watts 11000 Lumens, 70 watts P604 P402 P605 12800 Lumens, 84 watts 8900 Lumens, 57 watts P403 10100 Lumens, 67 watts P606 14100 Lumens, 94 watts P6011 P607 15700 Lumens, 107 watts 6400 Lumens, 38 watts P6021 7900 Lumens, 48 watts P608 16800 Lumens, 118 watts P603 P6092 17800 Lumens, 127 watts 9600 Lumens, 61 watts

Voltage MVOLT Multi-volt, 120-277V

277V XVOLT277 XVOLT347 347V XVOLT480 480V Fixture Driver

ΖT 0V to 10V DRIVER D4i D4i

DRIVER

**Optics** R2 Roadway Type I

R3 Roadway Type III R4 Roadway Type IV

Roadway Type V

#### **Mounting Bolts**

2B 2 bolt mount

4 holt mount 4B

#### Color Temperature (CCT)

2700K Color Temperature

3 K 3000K Color Temperature

4K 4000K Color Temperature

5K 5000K Color Temperature

#### **Paint**

Gray, 5K hr salt spray GY

Black, 5K hr salt spray BK

WH White, 5K hr salt spray

ΒZ Bronze, 5K hr salt spray

GN Green, 5K hr salt spray

**GYCR** Gray, 10k hour salt spray

BKCR Black, 10k hour salt spray

WHCR White, 10k hour salt spray

Bronze, 10k hour salt spray

GNCR Green, 10k hour salt spray

#### Surge Protection

Acuity SPD-20kV/10kA (IP65, with IL) MP MOV Pack (TR parallel devices)

#### Notes:

1. Not available with XVOLT Voltage

2. Not available with HITEMP Option

#### Receptacle Top

NTR No top receptacle

P7 7-pin photocontrol receptacle

ZRT Zhaga receptacle on top of fixture

#### Receptacle Bottom

NBR No bottom receptacle

ZRB Zhaga receptacle on bottom of fixture

# **Optional Selections**

#### Misc.

BL External Bubble Level

XL Not Certified - No Terminal Block Cover

House Side Shield

NL **NEMA Label Indicating Wattage** 

HITEMP **50C Ambient Temperature Rated** 

> Buy America(n) Act and/or Build America Buy America Oualified

#### **Controls**

AO Adjustable Output Module

**PCLL** DTL DLL 120-480V Photocontrol NOT AVAILABLE WITH NR, REQUIRES P7

SH Shorting Cap. Requires P7

DDC DC Connect photocontrol. Requires D4i driver, NTR & NBR

ALCB Local Connect Basic. Requires D4i driver & NBR

Local Connect Full. Requires D4i driver & NBR ALCF

ALCC Local Connect Custom. Requires D4i driver & NBR

RSDGR nLight Air motion sensor

Requires ZT driver, NTR & NBR

Cellular Network Lighting Control UBC Requires D4i driver & NTR

### **Packaging**

(Blank) Single Unit (Standard) Job Pack (54/pallet)

Accessories: House side shields for field installation

**ACM23HSS** House Side Shield for R2 & R3 Optics ACM45HSS House Side Shield for R4 & R5 Optics **ACMLRLTS** Left/Right Side Light Trespass Shield

for Field Installation

House Side/Street Side Light trespass shield for field installation

ACMCDSLTS Cul-de-sac light trespass shield for field installation

**Arm Accessories** 

UMR-XX 8" Horizontal Arm for Round Pole, Painted to match Fixture

IIMS-XX 8" Horizontal Arm for Square Pole, Painted to match Fixture

**UMR-GALV** 8" Horizontal Arm for Round Pole Galvanized **UMS-GALV** 8" Horizontal Arm for Square Pole, Galvanized

ATC Decorative Arms:

ATBODECOS XX ATBODECOR XX

Decorative Arm for Square Pole Painted to match fixture Decorative Arm for Round Pole Painted to match fixture

**Controls Training** 

LCTRAIN

**Local Connect Remote** Training; 1 day training provided by Acuity Services Team



**ACMHSSSLTS** 

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Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

# **Options Matrix**

ACM		Controls								Receptacle Top		Receptacle Bottom		Driver		Other		
		A0	PCLL	SH	DDC	ALCB	ALCF	ALCC	RSDGR	UBC	NTR	P7	ZRT	NBR	ZRB	ZT	D4I	BL
	A0		Υ	Υ	N	N	N	N	N	N	Υ	Υ	N	Υ	N	Υ	N	Υ
	PCLL	Υ		N	N	Υ	Υ	Υ	N	N	N	Υ	N	Y	Υ	Υ	Υ	Υ
	SH	Υ	N		N	Υ	Υ	Υ	N	N	N	Υ	N	Y	Υ	Υ	Υ	Υ
	DDC	N	Ν	N		N	N	N	N	N	Υ	N	N	Y	N	N	Υ	Υ
Controls	ALCB	N	Υ	Υ	N		N	N	N	N	Υ	Υ	Υ	Y	N	N	Υ	N
	ALCF	N	Υ	Υ	N	N		N	N	N	Υ	Υ	Υ	Y	N	N	Υ	N
	ALCC	N	Υ	Υ	N	N	N		N	N	Υ	Υ	Υ	Y	N	N	Υ	N
	RSDGR	N	Ν	N	N	N	N	N		N	Υ	N	N	Y	N	Υ	N	N
	UBC	N	Ν	N	N	N	N	N	N		Υ	N	N	Y	Υ	N	Υ	Υ
	NTR	Υ	N	N	Υ	Υ	Υ	Υ	Υ	Υ				Υ	Υ	Υ	Υ	Υ
Receptacle Top	P7	Υ	Υ	Υ	N	Υ	Υ	Υ	N	N				Y	Υ	Υ	Υ	Υ
lop	ZRT	N	Ν	N	N	Υ	Υ	Υ	N	N				Y	Υ	N	Υ	Υ
Receptacle Bottom	NBR	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ			Υ	Υ	Υ
	ZRB	N	Υ	Υ	N	N	N	N	N	Υ	Υ	Υ	Υ			N	Υ	N
Driver	ZT	Υ	Υ	Υ	N	N	N	N	Υ	N	Υ	Υ	N	Υ	N			Υ
Driver	D4I	N	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ			Υ

## Perfomance Package / Controls Matrix

	omance	raon	ago,		olo IVIG	
ACM	ACM (Medium)		ver	Con	MISC	
	(1110414111)	ZT	D4I	A0	RSDGR	HITEMP
	MVOLT	Υ	Υ	Υ	Υ	Υ
P401	XVOLT277	Υ	Υ	Υ	Υ	Υ
F 401	XVOLT347	Υ	Υ	Υ	Υ	Υ
P402	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Υ
P402	XVOLT277	Υ	Υ	Υ	Υ	Y
F 40Z	XVOLT347	Υ	Υ	Υ	Υ	Υ
	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Υ
P403	XVOLT277	Υ	Υ	Υ	Υ	Υ
F 403	XVOLT347	Υ	Υ	Υ	Υ	Υ
	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Y
P601	XVOLT277	N	Υ	N	N	Y
	XVOLT347	N	Υ	N	N	Υ
	XVOLT480	N	Υ	N	N	Υ
P602	MVOLT	Υ	Υ	Υ	Υ	Υ
	XVOLT277	N	Y	N	N	Υ
FUUZ	XVOLT347	N	Υ	N	N	Υ
	XVOLT480	N	Y	N	N	Υ
	MVOLT	Υ	Υ	Υ	Υ	Υ
P603	XVOLT277	Υ	Υ	Υ	Υ	Υ
F003	XVOLT347	Υ	Υ	Υ	Υ	Υ
	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Υ
P604	XVOLT277	Υ	Υ	Υ	Υ	Υ
F004	XVOLT347	Υ	Υ	Υ	Υ	Υ
	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Υ
P605	XVOLT277	Υ	Υ	Υ	Υ	Υ
FUUJ	XVOLT347	Υ	Υ	Υ	Υ	Υ
	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Y
P606	XVOLT277	Υ	Υ	Υ	Υ	Y
. 000	XVOLT347	Υ	Υ	Υ	Υ	Y
	XVOLT480	Υ	Υ	Υ	Υ	Y
	MVOLT	Υ	Υ	Υ	Υ	Υ
P607	XVOLT277	Y	Υ	Υ	Υ	Υ
. 007	XVOLT347	Y	Υ	Υ	Υ	Υ
	XVOLT480	Υ	Υ	Υ	Υ	Υ
	MVOLT	Y	Y	Y	Y	Y
P608	XVOLT277	Y	Y	Υ	Y	Y
P008	XVOLT347	Y	Υ	Υ	Y	Y
	XVOLT480	Υ	Υ	Υ	Υ	Y
	MVOLT	Υ	Υ	Υ	Υ	N
P609	XVOLT277	Υ	Υ	Υ	Υ	N
. 003	XVOLT347	Υ	Υ	Υ	Υ	N
	XVOLT480	Υ	Υ	Υ	Υ	N

Y = Option combination is allowed

 $N = Option \ combination \ is \ not \ allowed$ 

D4i Driver Option Defaults											
Setting	Receptacle Top	Receptacle Bottom	Embedded Control	Default Value	Alternate Values						
	NTR	NBR	none	ON	Off						
	NTR	NBR	ALCB / ALCF / ALCC	ON	none						
	NTR	NBR	DDC	ON	none						
	NTR	ZRB	none	ON	Off						
	NTR	NBR	UBC	ON	none						
DALI	NTR	ZRB	UBC	ON	none						
Power	P7	NBR	none	0FF	On						
Bus	P7	NBR	ALCB / ALCF / ALCC	ON	none						
	P7	ZRB	none	0FF	On						
	ZRT	NBR	none	ON	Off						
	ZRT	NBR	ALCB / ALCF / ALCC	ON	none						
	ZRT	NBR	DDC	ON	none						
	ZRT	ZRB	none	ON	Off						
Dimming Type	All	All	Any	LINEAR	Logarithmic						
24V AUX	All	All	Any	ON (Not Connected)	none						
Scenes Data	All	All	Any	0 (blank)	01-255						

<sup>\*</sup>To program different settings, consult factory; RFD is required



# **PERFORMANCE PACKAGE**

ACM Medium	Distribution	Input	2700K		300	ОК	4000/5	5000K	LLD @ 25°C			
		Watts	Lumens	LPW	Lumens	LPW	Lumens	LPW	50k Hours	75k Hours	100k Hours	
	R2		6,687	145	6,874	149	7,398	161				
D404	R3	40	6,715	146	6,966	151	7,429	162	0.92	0.00	0.00	
P401	R4	46	6,627	144	6,874	149	7,332	159		0.89	0.86	
	R5		6,804	148	7,207	157	7,527	164				
	R2		8,003	140	8,260	145	8,854	155				
P402	R3	57	8,074	142	8,490	149	8,932	157	0.02	0.00	0.86	
Γ402	R4	] 3/	7,957	140	8,260	145	8,804	154	0.92	0.89	0.00	
	R5		8,239	145	8,672	152	9,115	160				
	R2		9,172	137	9,494	142	10,147	151				
P403	R3	67	9,211	137	9,569	143	10,190	152	0.92	0.89	0.86	
1 400	R4		9,197	137	9,494	142	10,175	152	0.02	0.00	0.00	
	R5		9,447	141	10,003	149	10,451	156	1			
	R2		5,823	153	6,035	159	6,442	170	0.92	0.89		
P601	R3	- 38	5,845	154	6,036	159	6,466	170			0.86	
	R4	_	5,817	153	5,941	156	6,436	169			0.00	
	R5		5,873	155	6,213	163	6,497	171				
	R2	48	7,292	152	7,589	158	8,067	168	0.92	0.89		
P602	R3		7,343	153	7,583	158	8,124	169			0.86	
	R4		7,320	153	7,540	157	8,098	169				
	R5		7,492	156	7,791	162	8,289	173				
	R2	61	8,834	145	9,184	151	9,773	160		0.89		
P603	R3		8,900	146	9,147	150	9,846	161	0.92		0.86	
	R4		8,883	146	9,159	150	9,827	161				
	R5 R2		9,147	150	9,522	156 149	10,120	166 159				
	R3	70	10,061	144	10,461 10,235	149	11,130 11,212	160	0.92	0.89		
P604	R4		10,134 10,113	145 144	10,235	148	11,188	160			0.86	
	R5		10,113	144	10,362	154	11,100	164				
	R2		11,759	140	12,171	145	13,008	155				
	R3		11,735	141	11,952	142	13,000	156		0.89		
P605	R4	84	11,974	143	12,145	145	13,033	158	0.92		0.86	
	R5	-	12,160	145	12,566	150	13,453	160				
	R2		12,799	136	13,419	143	14,159	151				
	R3	1	13,021	139	13,264	141	14,406	153				
P606	R4	94	12,995	138	13,392	142	14,376	153	0.92	0.89	0.86	
	R5		13,387	142	13,807	147	14,810	158				
	R2		14,301	134	14,921	139	15,821	148				
Doo7	R3	107	14,469	135	14,927	140	16,008	150	0.00	0.00	0.00	
P607	R4	107	14,478	135	14,946	140	16,017	150	0.92	0.89	0.86	
	R5		14,921	139	15,419	144	16,507	154				
	R2		15,387	130	15,965	135	17,023	144				
Deec	R3	140	15,598	132	16,074	136	17,265	146	0.00	0.00	0.00	
P608	R4	118	15,607	132	16,044	136	17,266	146	0.92	0.89	0.86	
	R5		15,979	135	16,506	140	17,678	150				
	R2		16,213	128	16,875	133	17,937	141				
P609	R3	127	16,443	129	16,618	131	18,191	143	0.92	0.90	0.86	
F 009	R4	127	16,417	129	16,695	131	18,163	143	0.52	0.89	0.00	
	R5		16,804	132	17,334	136	18,591	146				

LLD Multiplier	15C	20C	25C	30C	35C	40C	
	1.02	1.01	1.00	0.99	0.98	0.97	

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.



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Please contact your sales representative for the latest product information.

AEL Headquarters, One Lithonia Way, Conyers Georgia 30012

www.americanelectriclighting.com Phone: 1-866-HOLOPHANE

# **B.U.G. Ratings**

			2700K			3000K		4000/5000K			
ACM Medium	Distribution	В	U	G	В	U	G	В	U	G	
	R2	2	0	2	2	0	2	2	0	2	
D.04	R3	1	0	2	1	0	2	2	0	2	
P401	R4	1	0	2	2	0	2	2	0	2	
	R5	3	0	3	3	0	3	3	0	3	
	R2	2	0	2	2	0	2	2	0	2	
D402	R3	2	0	2	2	0	2	2	0	2	
P402	R4	2	0	2	2	0	2	2	0	2	
	R5	3	0	3	3	0	3	3	0	3	
	R2	2	0	2	2	0	2	2	0	2	
P403	R3	2	0	2	2	0	2	2	0	2	
P403	R4	2	0	2	2	0	2	2	0	2	
	R5	3	0	3	4	0	4	4	0	4	
	R2	1	0	1	1	0	1	2	0	2	
P601	R3	1	0	1	1	0	1	1	0	1	
P001	R4	1	0	2	1	0	2	1	0	2	
	R5	3	0	3	3	0	3	3	0	3	
	R2	2	0	2	2	0	2	2	0	2	
P602	R3	1	0	2	1	0	2	2	0	2	
F002	R4	2	0	2	2	0	2	2	0	2	
	R5	3	0	3	3	0	3	3	0	3	
	R2	2	0	2	2	0	2	2	0	2	
P603	R3	2	0	2	2	0	2	2	0	2	
F 003	R4	2	0	2	2	0	2	2	0	2	
	R5	3	0	3	4	0	4	4	0	4	
	R2	2	0	2	2	0	2	2	0	2	
P604	R3	2	0	2	2	0	2	2	0	2	
F 004	R4	2	0	2	2	0	2	2	0	3	
	R5	4	0	4	4	0	4	4	0	4	
	R2	2	0	2	2	0	2	3	0	3	
P605	R3	2	0	2	2	0	2	2	0	2	
1 003	R4	2	0	3	2	0	3	2	0	3	
	R5	4	0	4	4	0	4	4	0	4	
	R2	3	0	3	3	0	3	3	0	3	
P606	R3	2	0	2	2	0	2	2	0	2	
1 000	R4	2	0	3	2	0	3	3	0	3	
	R5	4	0	4	4	0	4	4	0	4	
	R2	3	0	3	3	0	3	3	0	3	
P607	R3	2	0	2	2	0	2	3	0	3	
. 30,	R4	3	0	3	3	0	3	3	0	3	
	R5	4	0	4	4	0	4	4	0	4	
	R2	3	0	3	3	0	3	3	0	3	
P608	R3	3	0	3	3	0	3	3	0	3	
	R4	3	0	3	3	0	3	3	0	3	
	R5	4	0	4	4	0	4	4	0	4	
	R2	3	0	3	3	0	3	3	0	3	
P609	R3	3	0	3	3	0	3	3	0	3	
. 300	R4	3	0	3	3	0	3	3	0	3	
	R5	4	0	4	4	0	4	4	0	4	



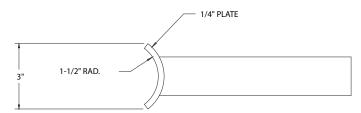
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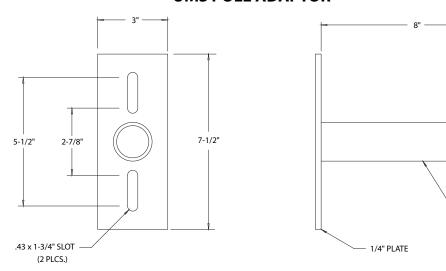
Please contact your sales representative for the latest product information.

### **UMR POLE ADAPTOR**

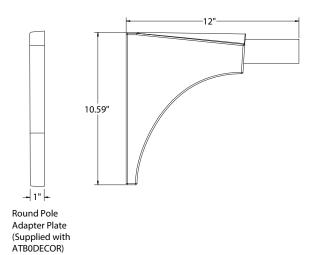
RECOMMENDED FOR USE WITH POLES OF 4" DIAMETER OR SMALLER

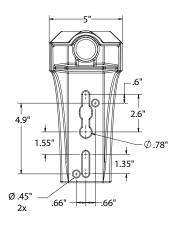


# **UMS POLE ADAPTOR**



# ATC (Autoconnect) DECORATIVE ARMS







Warranty Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: <a href="https://www.acuitybrands.com/support/warranty/terms-and-conditions">www.acuitybrands.com/support/warranty/terms-and-conditions</a>

1.66 O.D. x .140 WALL TB.

**Note**: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.