

# ATEX/IECEx LED Worklite<sup>™</sup> - NEW AND IMPROVED 2018

Zones: 1, 2, 21 and 22





## **Product Overview**

FULLY UPDATED IN 2018, the ATEX & IECEx certified Worklite™ is a rechargeable, high output LED floodlight for use in harsh, remote applications for extended periods. It offers unique levels of light output, operational duration and robustness in a self-contained battery powered lamp. It is CE marked to the ATEX Directive for safe use in Zones 1, 2, 21 and 22 potentially explosive gas, vapour, mist and dust atmospheres, where a T4 temperature class permits.

Following the 2018 update, the Worklite<sup>™</sup> now has:

- 3X The Light Output up to 3,100 lumens at source
- 2X The Light Duration up to 40 hours
- 4X The LED Life designed to give 100,000+ hours
- IECEx Certification

Two ATEX Worklite<sup>™</sup> models are available: the WL-85, which has an 18 LED lamp head giving over 3100 lumens output at source, and the WL-80 which also has an 18 LED lamp head giving 3100 lumens of light output but comes with a smaller, lighter battery to make it easily portable. Both models deliver a piercing spot beam and a flood of lower level fringe light. Low maintenance is assured by the LED light source which is designed to give over 100,000 hours life.

The duration of the WL-85 is up to 21 hours on 'high power' and up to 40 hours on 'low power' and the WL-80 is up to 15 hours on 'high power' and up to 22 hours on 'low power'. In addition to dual light output levels, the control circuit manages switch function, battery level indication and low battery cut-off, maintaining and protecting the battery from deep discharge damage.

The stainless steel construction of the ATEX Worklite<sup>™</sup> is designed to withstand the rigours and corrosion of harsh industrial and offshore applications. The battery and control circuit are in a box enclosure giving IP66 and IP67 protection from ingress of dust and water. The anodised aluminium lamp pivotable head is also IP66 and IP67 sealed and designed

## **Features & Benefits**

- ATEX and IECEx Approved for Zone 1 explosive gas and dust atmospheres, and OP IS compliant
- High power white LED beam with flood of lower level fringe light
- LED light source 'fitted for life' with 100,000+ hours life.
- Long duration, up to 21 hours full power, 40 hours half power
- Certified to both IP66 and 67, the Worklite<sup>™</sup> is dust tight and protected against powerful water jets and immersion up to 1 metre
- Robust durable stainless steel construction battery enclosure and frame
- Locking pivot head to direct light
- Toughened glass lens with optional disposable lens guard
- Rechargeable high capacity battery, fully managed
- State of charge LED indication
- Supplied with a mains charger with state of charge indication, powered from 100 to 254Vac

## Certifications



as a heatsink for the LED light source. Being both IP66 and IP67 means that as well as being "dust tight" the Worklite™ is protected against powerful jets of water and immersion up to 1 metre. The lens is impact resistant 6mm toughened glass. In shot blasting and painting applications, the lens can be protected using a disposable antistatic lens guard (3 supplied).

### **NSN Codes**

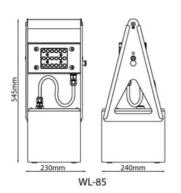
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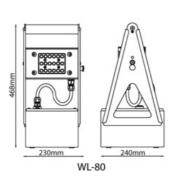
Product Description   High Power Rechargeable Battery Worklite™ 18 LED     Code   High Power Rechargeable Battery Worklite™ 18 LED     Code   High Power Rechargeable Battery Worklite™ 18 LED     Type of Protection   's' Increased Safety, th' Intrinaic Safety, septial restrinaic safety, the' Encapsulation, th Enclosure Profection     Area of Classification (Gas)   Zones 1 and 2, Gas Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Zones 21 and 22, Oust Groups HA, HB, HG     Area of Classification (Oust)   Stafes Steel MB, Authinhum LED Lamp Head     Lote   Toughened Glass Lews Suppled with 3 Arti stafe Lews Guards     Beam Type   Type High Power LEO     Over / Output   Yes <t< th=""><th></th><th></th><th></th><th></th></t<>				
Code       II 2 GD Ex e ib mb op is IIG T4 Gb Ex ib op is IIIG T135°C Db         Type of Protection       Val Increased Safely, bi Intrinsic Safely, top is optical instinsic safely, mb Encapsulation, ib Enclosure Protection         Area of Classification (Gas)       Zones 1 and 2, Gas Groups IIA, IIB, IIG         Temp. Classification (Gas)       Zones 21 and 22, Dual Groups IIA, IIB, IIG         Max Surface Temp. (Dust)       T135°C         Ambient Temperature       -20°C to .40°C         Cerrificate       Standov S	Product Reference		WL-80	WL-85
Type of Protection   1o' Increased Safety, 1b' Intrinsic Safety, 1op is 'optical instinsic safety, mo' Encapsulation, 1b Enclosure Protection     Area of Classification (Gae)   Image: Tage: Tage	Product Description		High Power Rechargeable Battery Worklite™ <b>18 LED</b>	
Area of Classification (Gas)   Zones 1 and 2, Gas Groups IIA, IIB, IIC     Temp. Classification (Gas)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Control (Dust)     Area of Classification (Dust)   Zones 21 and 22, Gas Groups IIA, IIB, IIC     Area of Classification (Dust)   Control (Dust)     Area of Classification (Dust)   Control (Dust)     Control (Dust)   Standard (Classification (Dust)     Enclosure   Toughened Glass Lens Supel with a Anti-static Lens Guards     Beam Type   Toughened Glass Lens Supel with a Sonti-static Lens Guards     Beam Type   Toughened Glass Lens Supel With Aluminut LED Lamp Head     Light Source   Yep O   Source (Dust)     Power /   Orgen (Dust)   Source (Dust)     Power /   Orgen (Dust)   Source (Dust)     Power /   Power /   Source (Dust)     Source   Power /   Source (Dust)     Power /   Orgen	Code		II 2 GD Ex e ib mb op is IIC T4 Gb Ex tb op is IIIC T135°C Db	
Temp. Classification (Gas)   Image: Classification (Gas)     Area of Classification (Dust)   Zores 21 and 22, Dust Groups IIIA, IIIB, IIIC     Max Surface Temp. (Dust)   T135 °C     Ambient Temperature   -20°C to :40°C     Certificate   Sira07ATEX3027X_IECEX SIR.18.0028X     Enclosure   Gatarlass Steel with Auminum LED Lamp Head     Enclosure   Toughened Glass Lens Suppled with 3 Arti-static Lens Guards     Beam Type   Spot Beam with a Flood of Low Level Fringe Light     Light Source:   Power / Pourput     Power   Power / 18 x High Power LED     Power   Power / Pourput     Power   Power / 18 x High Power LED     Power   Power / 18 x High Power LED     Vorts   W-235     Battery Type   Rechargeable Battery, Sealed Gel Lead Acid     Vorts   Life     Vorts   Life     Vorts   Life     Life   Up to 18hrs / 28hrg     Vorts   Up to 18hrs / 28hrg     Life   Up to 18hrs / 28hrg     Vorts   Up to 18hrs / 28hrg     Life   Up to 18hrs / 28hrg     Vorts   Up to 18hrs / 28hrg     Life   Up to 18hrs / 28hrg     Vorts   Up to 18hrs / 28hrg     Life   Up to 18hrs / 28hrg     Vorts <th colspan="2">Type of Protection</th> <th colspan="2"></th>	Type of Protection			
Area of Classification (Dust)   Zones 21 and 22, Dust Groups IIIA, IIIB, IIIC     Max Surface Temp: (Dust)   T135°C     Ambient Temperature   -20°C to +40°C     Certificate   Sira07ATEX3027X, IECEX SIR.18.0028X     Enclosure   Stanless Steel with Aluminium LED Lamp Head     Lons   Toughened Glass Lens Supplied with 3 Anti-static Lens Guards     Beam Type   Spot Beam with a Flood of Low Level Fringe Light     Light Source:   Type     Power / Output   18 x High Power LEDs / Up to 3100 Im at source     Source:   Part No.   W-218     Power y   Gapeeity   Sealed Gel Lead Acid     Volts   Quartication of Quartication	Area of Classification (Gas)		Zones 1 and 2, Gas Groups IIA, IIB, IIC	
Max Surface Temp. (Dust)   T135°C     Ambient Temperture   -20°C to +40°C     Certificate   Sira07ATEX3027X, IECEX SIR-18.0028X     Enclosure   Sira07ATEX3027X, IECEX SIR-18.0028X     Enclosure   Toughened Glass Lens Supplied with Aluminium LED Lamp Head     Lens   Toughened Glass Lens Supplied with 3 Anti-static Lens Guards     Beam Type   Spot Beam with a Flood of Low Level Fringe Light     Light Source:   Power /     Power /   18 × High Power LED     Power /   18 × High Power LED     Power /   W-218     Power Source:   Path No.     Wits   W-218     Votis   Quiput     Ide up to 500 Rechargeable Battery. Sealed Gel Lead Acid     Votis   18 × High Power LED     Life   Up to 18Ah     Source:   Stating Source     Ide up to 500 Rechargeable Battery. Sealed Gel Lead Acid     Votis   Up to 18Ah     Stating Source:   Up to 15hrs / 22hrs     Life   Up to 15hrs / 22hrs     Light Duration - High / Low   Up to 15hrs / 22hrs     Weight (inc. battery   16.5kg     Carger Input   100-25k Vac	Temp. Classification (Gas)		Τ4	
Ambient Temperature     :20° C to +40° C       Certificate     :20° C to +40° C       Certificate     Sira07ATEX3027X, IECEX SIR.18.0028X       Enclosure     Stainless Steel with Aluminium LED Lamp Head       Lens     Toughened Glass Lens Suppled with 3 Anti-static Lens Guards       Beam Type     Spot Beam with a Flood of Low Level Fringe Light       Light Source:     Type       Power /     18 x High Power LED       Power /     18 x High Power LED / Up to 3100 Im at source       Life     100.000hrs+ (Fitted for Life)       Power source:     Part No.     W-218       Voits     12V       Capacity     18Ah     35Ah       Life     Up to 500 Rechargeable Battery. Sealed Gel Lead Acid       Voits     12V     Spot Beam Type       Life     Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs       Light Duration - High / Low     Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs       Hight (inc. battery     16.5kg     23kg       Weight (inc. battery     16.5kg     23kg	Area of Classification (Dust)		Zones 21 and 22, Dust Groups IIIA, IIIB, IIIC	
Certificate   Sira07ATEX3027X, IECEX SIR.18.0028X     Enclosure   Stainless Steel with Aluminium LED Lamp Head     Lens   Toughened Glass Lens Suppled with 3 Anti-static Lens Guards     Beam Type   Spot Beam with a Flood of Low Level Fringe Light     Light Source:   Type   High Power LED     Power / Output   18 × High Power LED     Power / Output   18 × High Power LED     Power / Output   W-235     Battery Type   Part No.     Power / Output   Rechargeable Battery, Sealed Gel Lead Acid     Volts   12 ×     Life   Up to 500 Fearge Cycles     Low Battery Indictor   Up to 15hrs / 22hrs     Light Duration + Ligh / Low   Up to 15hrs / 22hrs     Weight (inc. battery   16.5kg     Carger input   16.5kg	Max Surface Temp. (Dust)		T135°C	
Enclosure     Stainless Steel with Atuminium LED Lamp Head       Lens     Toughened Glass Lens Supplied with 3 Anti-static Lens Guards       Beam Type     Spot Beam with a Flood of Low Level Fringe Light       Light Source:     Type       Power / Output     Type       Power / Output     18 x High Power LED       Power / Output     18 x High Power LED       Power / Output     Power / Output       Power / Output     18 x High Power LED       Power / Source:     Part No.       Part No.     W-218       We218     W-235       Battery Type     Rechargeable Battery, Sealed Gel Lead Acid       Voits     18Ah     35Ah       Life     Up to 18Ah     35Ah       Life     Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs       Ingress Protectiv     IP66 and IP2* to IEC60529       Weight (inc. battry Induction + Up to 16.5kg     23kg       Charger Input     18.5kg     23kg	Ambient Temperature		-20°C to +40°C	
Lens     Toughened Glass Lens Supplied with 3 Anti-static Lens Guards       Beem Type     Spot Beam with a Flood of Low Level Fringe Light       Light Source:     Type       Power / Output     18 × High Power LED       Power / Output     18 × High Power LEDs / Up to 3100 Im at source       Power / Output     18 × High Power LEDs / Up to 3100 Im at source       Power / Output     18 × High Power LEDs / Up to 3100 Im at source       Power / Output     18 × High Power LEDs / Up to 3100 Im at source       Power / Output     Part No.     W-235       Power / Source:     Part No.     W-235       Battery Type     Rechargeable Battery, Sealed Gel Lead Acid       Voits     12V       Capacity     18Ah       Life     Up to 500 Recharge Cycles       Low Battery Inductor     Up to 15hrs / 22hrs       Light Duration - High / Low     Up to 15hrs / 22hrs       Up to 11 hrs / 40hrs     100 - 254 Vac	Certificate		Sira07ATEX3027X, IECEX SIR.18.0028X	
Beam Type   Spot Beam with a Flood of Low Level Fringe Light     Light Source:   Type   High Power LED     Power / Output   18 x High Power LED   Up to 3100 Im at source     Power / Output   18 x High Power LED   Up to 3100 Im at source     Power / Output   18 x High Power LED   Up to 3100 Im at source     Power / Output   100.000hrs+ (Fitted for Life)     Power / Source:   Part No.   W-235     Power / Source:   Part No.   W-235     Ide Company   Rechargeable Battery, Sealed Gel Lead Acid     Volts   Image: Source:   Spot Beam With a Flood Output     Ide Company   18Ah   35Ah     Life   Up to 18Ah   35Ah     Life   Up to 500 For yet arge Cycles     Life   Up to 15hrs / 22hrs   Up to 21 hrs / 40hrs     Ingress Protection   Up to 15hrs / 22hrs   Up to 21 hrs / 40hrs     Weight (inc. battery   16.5kg   23kg     Charger Input   100 - 254 Vac	Enclosure		Stainless Steel with Aluminium LED Lamp Head	
Light Source:   Type   High Power LED     Power / Output   18 x High Power LED     Ife   18 x High Power LED     Votput   18 x High Power LED     Power / Output   18 x High Power LED     Ife   100,000hrs+ (Fitted for Life)     Power Source:   Part No.   W-218     Power Source:   Pattery Type   W-235     Power Source:   Otts   W-235     Ife   Otts   W-235     Ife   18 A March   35Ah     Life   Outp to 500 Recharge Cycles     Life   Up to 15hrs / 22hrs   Up to 21 hrs / 40hrs     Ingress Protection   IP66 and IPC** to IEC60529     Weight (inc. battry   16.5kg   23kg     Charger Input   100 - 254 Vac	Lens		Toughened Glass Lens Supplied with 3 Anti-static Lens Guards	
Power / Output   18 x High Power LEDs / Up to 3100 Im at source     Fower / Output   18 x High Power LEDs / Up to 3100 Im at source     Fower / Source:   Part No.     Part No.   W-218     Battery Type   Rechargeable Battery. Sealed Gel Lead Acid     Volts   12/     Capacity   18Ah     Life   Up to 500 Recharge Cycles     Low Battery Inductor   Up to 500 Recharge Cycles     Light Duration - High / Low   Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs   Up to 21 hrs / 40hrs     Ingress Protection   186 Add 100 - 254 Vac	Beam Type		Spot Beam with a Flood of Low Level Fringe Light	
Output   Output     Life   100,000hrs+ (Fitted for Life)     Power Source:   Part No.   W-218   W-235     Battery Type   Rechargeable Battery, Sealed Gel Lead Acid     Volts   12V     Capacity   18Ah     Life   Up to 500 Recharge Cycles     Life   Up to 500 Recharge Cycles     Light Duration - High / Low   Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs     Ingress Protection   16.5kg     23kg     Charger Input   100 - 254 Vac	Light Source:	Туре	High Power LED	
Power Source:       Part No.       W-218       W-235         Battery Type       Rechargeable Battery, Sealed Gel Lead Acid         Volts       Image: Capacity         Capacity       18Ah         Life       Up to 500 Recharge Cycles         Low Battery Indicator       Yes         Light Duration - High / Low       Up to 15hrs / 22hrs       Up to 21 hrs / 40hrs         Ingress Protection       16.5kg       23kg         Charger Input       100 - 254 Vac			18 x High Power LEDs / Up to 3100 lm at source	
Source:   Battery Type   Rechargeable Battery, Sealed Gel Lead Acid     Volts   12V     Capacity   18Ah     Life   Up to 500 Recharge Cycles     Low Battery Indicator   Yes     Light Duration - High / Low   Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs     Ingress Protection   16.5kg     Weight (inc. battery)   16.5kg     Charger Input   100 - 254 Vac		Life	100,000hrs+ (Fitted for Life)	
Battery Type   Rechargeable Battery. Sealed Gel Lead Acid     Voits   12V     Capacity   18Ah     Life   Up to 500 Recharge Cycles     Low Battery Indictor   Yes     Light Duration - High / Low   Up to 15hrs / 22hrs     Up to 500 Recharge Cycles   Up to 21 hrs / 40hrs     Ingress Protector   16.5kg     Charger Input   100 - 254 Vac		Part No.	W-218	W-235
Image: Capacity   18Ah   35Ah     Life   Up to 500 Recharge Cycles     Low Battery Indicator   Yes     Light Duration - High / Low   Up to 15hrs / 22hrs   Up to 21 hrs / 40hrs     Ingress Protection   IP66 and IP66 and IP6529     Weight (inc. battery)   16.5kg   23kg     Charger Input   100 - 254 Vac		Battery Type	Rechargeable Battery, Sealed Gel Lead Acid	
Life   Up to 500 Recharge Cycles     Low Battery Indicator   Yes     Light Duration - High / Low   Up to 15hrs / 22hrs   Up to 21 hrs / 40hrs     Ingress Protection   IP66 and IP67* to IEC60529     Weight (inc. battery)   16.5kg   23kg     Charger Input   0   200 - 254 Vac		Volts	12V	
Low Battery Indicator     Yes       Light Duration - High / Low     Up to 15hrs / 22hrs     Up to 21 hrs / 40hrs       Ingress Protection     IP66 and IP67* to IEC60529       Weight (inc. battery)     16.5kg     23kg       Charger Input     IOU - 254 Vac		Capacity	18Ah	35Ah
Light Duration - High / Low   Up to 15hrs / 22hrs   Up to 21 hrs / 40hrs     Ingress Protection   IP66 and IP67* to IEC60529     Weight (inc. battery)   16.5kg   23kg     Charger Input   100 - 254 Vac		Life	Up to 500 Recharge Cycles	
Ingress Protection   IP66 and IP67* to IEC60529     Weight (inc. battery)   16.5kg   23kg     Charger Input   100 - 254 Vac	Low Battery Indicator		Yes	
Weight (inc. battery)   16.5kg   23kg     Charger Input   100 - 254 Vac	Light Duration - High / Low		Up to 15hrs / 22hrs	Up to 21 hrs / 40hrs
Charger Input 100 - 254 Vac	Ingress Protection		IP66 and IP67* to IEC60529	
	Weight (inc. battery)		16.5kg	23kg
Becharge Time 8brs 12brs	Charger Input		100 - 254 Vac	
	Recharge Time		8hrs	12hrs

\* Being certified to both IP66 and IP67, the Worklite™ is "dust tight" and protects against powerful water jets and immersion up to 1 metre

- All information has been gathered under laboratory conditions, the user must regard the values given as approximate.
- Changes may be made to the above specification without notification, details are available on request.

## **Product Dimensions**





## **Light Output**

Spot Beam, approximately 14°, with a flood of lower level fringe light.

#### Full Power:

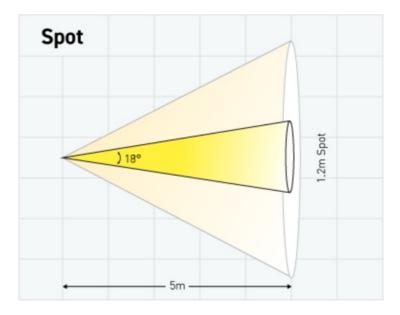
14,146 Lux at 1m

566 Lux at 5m

Half Power:

7,455 Lux at 1m

298 Lux at 5m



Version: SL015 DF486 Issue 7



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