

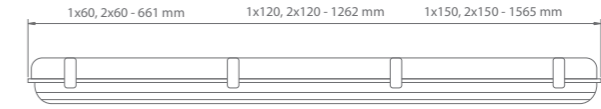
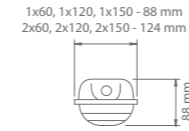


# Wars LED Panel



- Stopień ochrony IP65 / IP65 protection rating of a housing
- Korpus i klosz wykonany z wysokiej jakości poliwęglanu (PC) / Housing's base and diffuser made of high quality polycarbonate (PC)
- Zatrzaśki klosza z poliwęglanu (PC), opcjonalnie ze stali nierdzewnej (INOX) / Diffuser's clips made of polycarbonate (PC), optionally of stainless steel (INOX)
- Napięcie zasilania: 230VAC (wersje MT, AT i CT) lub 230VAC/220VDC (wersja CB) / Power supply voltage: 230VAC (MT, AT and CT versions) or 230VAC/220VDC (CB version)
- Źródło światła: nowoczesne panele LED / Light source: modern LED panels
- Wersje wielkości obudowy: 6 (3 długości: 60, 120 i 150 / 2 szerokości: 1x i 2x) / Housing's sizes versions: 6 (3 lengths: 60, 120 and 150 / 2 widths: 1x and 2x)
- Zakres dostępnych mocy opraw: od 19W do 60W / Luminaires' available power's range: from 19W to 60W
- Dostępne wykonania: oświetlenie podstawowe, awaryjne i awaryjne LT do niskich temperatur (do -25°C) / Available models: standard, emergency and LT low temperature (up to -25°C) emergency lighting
- Dostępne moce świecenia awaryjnego: od 2W do 12W / Available emergency powers: from 2W to 12W
- Tryby awaryjne: A – awaryjny lub SA – sieciowo-awaryjny / Emergency modes: A – Non-Maintained or SA – Maintained

- Czasy autonomii: 2h, 3h / Autonomy times: 2h, 3h
- Opcje testowania: MT – test ręczny, AT – test automatyczny, CT – test centralny (Wells) lub CB – wykonanie do baterii centralnej / Testing options: MT – manual test, AT – auto test, CT – central test (Wells) or CB – central battery version
- Akumulatory do wykonania awaryjnych: NiCd lub LiFePO4 (zależnie od wersji) / Batteries for emergency versions: NiCd or LiFePO4 (depending on version)
- Montaż: sufitowy lub na zwieszakach – regulowany / Ceiling installation or pendant type installation – adjustable
- Do oświetlania hal przemysłowych, magazynów, tuneli, piwnic, garaży, itp. (oświetlenie podstawowe) oraz do oświetlania stref otwartych, dróg i wyjść ewakuacyjnych (oświetlenie awaryjne) w budynkach użyteczności publicznej / For illuminating industrial halls, warehouses, tunnels, basements, garages, etc. (standard lighting) and open spaces, evacuation ways and exits (emergency lighting) in public utility buildings
- Temperatura barwowa: 4000K / Colour temperature: 4000K
- Współczynnik oddawania barw: Ra>=80 / Colour rendering index: Ra>=80
- Zakres temperatur pracy:  $t_a = -25^{\circ}\text{C} \div +40^{\circ}\text{C}$  (oświetlenie podstawowe),  $t_a = +10^{\circ}\text{C} \div +30^{\circ}\text{C}$  (oświetlenie awaryjne) lub  $t_a = -25^{\circ}\text{C} \div +30^{\circ}\text{C}$  (oświetlenie awaryjne LT do niskich temperatur) / Temperature working range:  $t_a = -25^{\circ}\text{C} \div +40^{\circ}\text{C}$  (standard lighting),  $t_a = +10^{\circ}\text{C} \div +30^{\circ}\text{C}$  (emergency lighting) or  $t_a = -25^{\circ}\text{C} \div +30^{\circ}\text{C}$  (LT low temperature emergency lighting)



## MODELE STANDARDOWE / STANDARD MODELS

| Model / Model              | Numer katalogowy / Catalogue number | Moc całkowita / Total power | Strumień świetlny / Luminous flux | Temperatura barwowa / Colour temperature |
|----------------------------|-------------------------------------|-----------------------------|-----------------------------------|--|
| WARS LED PANEL 1X60 4000K  | 93101                               | 19W                         | 2100 lm                           | 4000 K                                   |
| WARS LED PANEL 2X60 4000K  | 93102                               | 24W                         | 2700 lm                           | 4000 K                                   |
| WARS LED PANEL 1X120 4000K | 93103                               | 39W                         | 3200 lm                           | 4000 K                                   |
| WARS LED PANEL 2X120 4000K | 93104                               | 49W                         | 4500 lm                           | 4000 K                                   |
| WARS LED PANEL 1X150 4000K | 93105                               | 49W                         | 4900 lm                           | 4000 K                                   |
| WARS LED PANEL 2X150 4000K | 93106                               | 60W                         | 5800 lm                           | 4000 K                                   |



## MODELE AWARYJNE Z TESTEM MANUALNYM / EMERGENCY MODELS WITH MANUAL TEST

| Model / Model                       | Numer katalogowy / Catalogue number | Moc całkowita / Total power | Moc awaryjna / Emergency power | Strumień świetlny sieciowy / Mains luminous flux | Strumień świetlny awaryjny / Emergency luminous flux | Tryb / Mode | Autonomia / Autonomy | Akumulator / Battery Pack | Test / Test |
|-------------------------------------|-------------------------------------|-----------------------------|--------------------------------|--|--|-------------|----------------------|---------------------------|-------------|
| WARS LED PANEL 1X60 SA 2H MT 4000K  | 93119                               | 22W                         | 2W                             | 2100 lm  | 285 lm   | SA (M)      | 2h                   | NiCd 3,6V 2500mAh         | MT          |
| WARS LED PANEL 2X60 SA 2H MT 4000K  | 93120                               | 27W                         | 2W                             | 2700 lm  | 275 lm   | SA (M)      | 2h                   | NiCd 3,6V 2500mAh         | MT          |
| WARS LED PANEL 2X60 SA 3H MT 4000K  | 93126                               | 27W                         | 2W                             | 2700 lm  | 275 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |
| WARS LED PANEL 1X120 SA 2H MT 4000K | 93121                               | 42W                         | 2W                             | 3200 lm  | 255 lm   | SA (M)      | 2h                   | NiCd 3,6V 2500mAh         | MT          |
| WARS LED PANEL 1X120 SA 3H MT 4000K | 93127                               | 42W                         | 2W                             | 3200 lm  | 255 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |
| WARS LED PANEL 2X120 SA 2H MT 4000K | 93122                               | 52W                         | 2W                             | 4500 lm  | 255 lm   | SA (M)      | 2h                   | NiCd 3,6V 2500mAh         | MT          |
| WARS LED PANEL 2X120 SA 3H MT 4000K | 93128                               | 52W                         | 2W                             | 4500 lm  | 255 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |
| WARS LED PANEL 1X150 SA 2H MT 4000K | 93123                               | 52W                         | 2W                             | 4900 lm  | 245 lm   | SA (M)      | 2h                   | NiCd 3,6V 2500mAh         | MT          |
| WARS LED PANEL 1X150 SA 3H MT 4000K | 93129                               | 52W                         | 2W                             | 4900 lm  | 245 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |
| WARS LED PANEL 2X150 SA 2H MT 4000K | 93124                               | 63W                         | 2W                             | 5800 lm  | 230 lm   | SA (M)      | 2h                   | NiCd 3,6V 2500mAh         | MT          |
| WARS LED PANEL 2X150 SA 3H MT 4000K | 93130                               | 63W                         | 2W                             | 5800 lm  | 230 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |

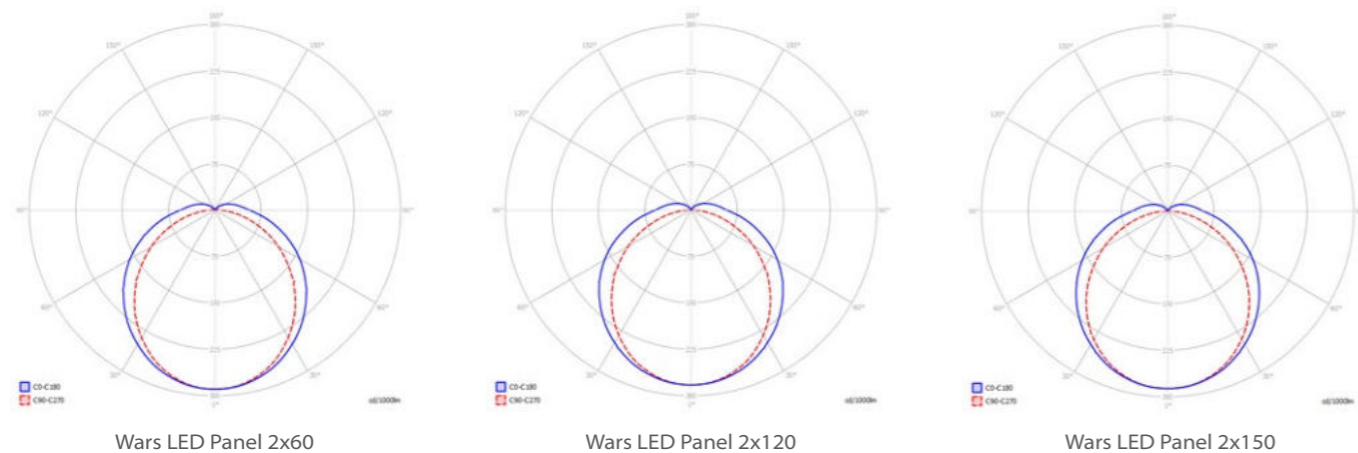


## MODELE AWARYJNE Z TESTEM AUTOMATYCZNYM / EMERGENCY MODELS WITH AUTO TEST

| Model / Model                           | Numer katalogowy / Catalogue number | Moc całkowita / Total power | Moc awaryjna / Emergency power | Strumień świetlny sieciowy / Mains luminous flux | Strumień świetlny awaryjny / Emergency luminous flux | Tryb / Mode | Autonomia / Autonomy | Akumulator / Battery Pack | Test / Test |
|---|-------------------------------------|-----------------------------|--------------------------------|--|--|-------------|----------------------|---------------------------|-------------|
| WARS LED PANEL 1X60 SA-3W 2H AT 4000K   | 93137                               | 22W                         | 3W                             | 2100 lm  | 490 lm   | SA (M)      | 2h                   | LiFePO4 12,8V 1000mAh     | MT          |
| WARS LED PANEL 1X60 SA-3W 3H AT 4000K   | 93143                               | 22W                         | 3W                             | 2100 lm  | 490 lm   | SA (M)      | 3h                   | LiFePO4 12,8V 1600mAh     | MT          |
| WARS LED PANEL 2X60 SA-6W 2H AT 4000K   | 93138                               | 27W                         | 6W                             | 2700 lm  | 900 lm   | SA (M)      | 2h                   | LiFePO4 12,8V 1600mAh     | MT          |
| WARS LED PANEL 1X120 SA-6W 2H AT 4000K  | 93139                               | 42W                         | 6W                             | 3200 lm  | 790 lm   | SA (M)      | 2h                   | LiFePO4 12,8V 1600mAh     | MT          |
| WARS LED PANEL 1X120 SA-6W 3H AT 4000K  | 93145                               | 42W                         | 6W                             | 3200 lm  | 790 lm   | SA (M)      | 3h                   | LiFePO4 12,8V 3000mAh     | MT          |
| WARS LED PANEL 2X120 SA-9W 2H AT 4000K  | 93140                               | 52W                         | 9W                             | 4500 lm  | 1195 lm  | SA (M)      | 2h                   | LiFePO4 12,8V 3000mAh     | MT          |
| WARS LED PANEL 2X120 SA-9W 3H AT 4000K  | 93146                               | 52W                         | 9W                             | 4500 lm  | 1195 lm  | SA (M)      | 3h                   | LiFePO4 12,8V 3000mAh     | MT          |
| WARS LED PANEL 1X150 SA-9W 2H AT 4000K  | 93141                               | 52W                         | 9W                             | 4900 lm  | 1290 lm  | SA (M)      | 2h                   | LiFePO4 12,8V 3000mAh     | MT          |
| WARS LED PANEL 1X150 SA-9W 3H AT 4000K  | 93147                               | 52W                         | 9W                             | 4900 lm  | 1290 lm  | SA (M)      | 3h                   | LiFePO4 12,8V 3000mAh     | MT          |
| WARS LED PANEL 2X150 SA-12W 2H AT 4000K | 93142                               | 63W                         | 12W                            | 5800 lm  | 1575 lm  | SA (M)      | 2h                   | LiFePO4 12,8V 3000mAh     | MT          |
| WARS LED PANEL 2X150 SA-12W 3H AT 4000K | 93148                               | 63W                         | 12W                            | 5800 lm  | 1575 lm  | SA (M)      | 3h                   | LiFePO4 12,8V 4000mAh     | MT          |

A (NM) - tryb awaryjny / non-maintained mode  
SA - tryb sieciowo-awaryjny / maintained mode

MT - tryb ręczny / manual test  
AT - tryb automatyczny / autotest



Wars LED Panel 2x60

Wars LED Panel 2x120

Wars LED Panel 2x150



TABELE ODSTEPÓW DLA PŁASKICH DRÓG EWAKUACYJNYCH I PRZESTRZENI OTWARTYCH / SPACING TABLES FOR FLAT EVACUATION ROUTES AND OPEN SPACES

WARS LED PANEL 2x60 MT

| Wysokość montażu (m) / Installation height (m) | 3,7 | 9,5  | 8,7  | 3,4 |
|--|-----|------|------|-----|
| 2,5  | 3,7 | 9,5  | 8,7  | 3,4 |
| 3  | 3,8 | 10,1 | 9,2  | 3,5 |
| 4  | 3,8 | 10,8 | 10,0 | 3,6 |

WARS LED PANEL 2x120 MT

| Wysokość montażu (m) / Installation height (m) | 3,5 | 9,4  | 8,5 | 3,3 |
|--|-----|------|-----|-----|
| 2,5  | 3,5 | 9,4  | 8,5 | 3,3 |
| 3  | 3,7 | 9,9  | 9,1 | 3,4 |
| 4  | 3,7 | 10,5 | 9,8 | 3,4 |

WARS LED PANEL 2x150 MT

| Wysokość montażu (m) / Installation height (m) | 3,4 | 9,0  | 8,4 | 3,3 |
|--|-----|------|-----|-----|
| 2,5  | 3,4 | 9,0  | 8,4 | 3,3 |
| 3  | 3,4 | 9,4  | 8,8 | 3,3 |
| 4  | 3,4 | 10,0 | 9,5 | 3,3 |

WARS LED PANEL 2x60 SA-6W AT

| Wysokość montażu (m) / Installation height (m) | 5,6 | 12,1 | 10,7 | 4,9 |
|--|-----|------|------|-----|
| 2,5  | 5,6 | 12,1 | 10,7 | 4,9 |
| 3  | 5,8 | 14,5 | 12,8 | 5,2 |
| 4  | 6,4 | 16,6 | 14,9 | 5,9 |

WARS LED PANEL 2x120 SA-9W AT

| Wysokość montażu (m) / Installation height (m) | 6,1 | 12,4 | 10,9 | 5,3 |
|--|-----|------|------|-----|
| 2,5  | 6,1 | 12,4 | 10,9 | 5,3 |
| 3  | 6,4 | 14,8 | 13,0 | 5,8 |
| 4  | 7,2 | 18,4 | 16,3 | 6,4 |

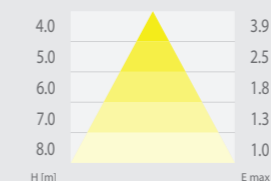
WARS LED PANEL 2x150 SA-12W AT

| Wysokość montażu (m) / Installation height (m) | 6,1 | 12,3 | 10,9 | 5,6 |
|--|-----|------|------|-----|
| 2,5  | 6,1 | 12,3 | 10,9 | 5,6 |
| 3  | 7,0 | 15,3 | 13,3 | 6,1 |
| 4  | 7,8 | 19,4 | 17,1 | 6,9 |

WYKRESY STOJKOWE / CONE DIAGRAMS



Wars LED Panel 2x60 MT\*



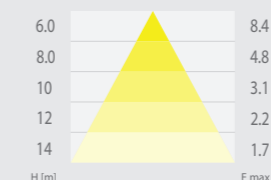
Wars LED Panel 2x120 MT\*



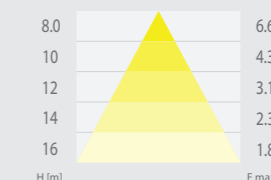
Wars LED Panel 2x150 MT\*



Wars LED Panel 2x60 SA-6W AT\*



Wars LED Panel 2x120 SA-9W AT\*



Wars LED Panel 2x150 SA-12W AT\*

\* Wykresy dla wersji awaryjnych / Diagrams for emergency versions

MODELE AWARYJNE PRZYSTOSOWANE DO NISKICH TEMPERATUR / EMERGENCY MODELS ADEPTED FOR LOW TEMPERATURES

| Model / Model                          | Numer katalogowy / Catalogue number | Moc całkowita / Total power | Moc awaryjna / Emergency power | Strumień świetlny sieciowy / Mains luminous flux | Strumień świetlny awaryjny / Emergency luminous flux | Tryb / Mode | Autonomia / Autonomy | Akumulator / Battery Pack | Test / Test |
|--|-------------------------------------|-----------------------------|--------------------------------|--|--|-------------|----------------------|---------------------------|-------------|
| WARS LED PANEL 2X60 SA 3H MT 4000K LT  | 93185                               | 41W                         | 2W                             | 2700 lm  | 275 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |
| WARS LED PANEL 2X120 SA 3H MT 4000K LT | 93182                               | 66W                         | 2W                             | 4500 lm  | 255 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |
| WARS LED PANEL 2X150 SA 3H MT 4000K LT | 93186                               | 77W                         | 2W                             | 5800 lm  | 230 lm   | SA (M)      | 3h                   | NiCd 3,6V 4000mAh         | MT          |

SA (M) - tryb sieciowo-awaryjny / maintained mode  
MT - test ręczny / manual test

LT - Model przystosowany do niskich temperatur (do t<sub>s</sub> -25°C) / Model adapted for low temperatures (up to t<sub>s</sub> -25°C)

MODELE DO BATERII CENTRALNEJ / MODELS FOR CENTRAL BATTERY

| Model / Model                 | Numer katalogowy / Catalogue number | Moc całkowita / Total power | Strumień świetlny / Luminous flux | Temperatura barwowa / Colour temperature |
|-------------------------------|-------------------------------------|-----------------------------|-----------------------------------|--|
| WARS LED PANEL 1X60 CB 4000K  | 93107                               | 19W                         | 2100 lm                           | 4000 K                                   |
| WARS LED PANEL 2X60 CB 4000K  | 93108                               | 24W                         | 2700 lm                           | 4000 K                                   |
| WARS LED PANEL 1X120 CB 4000K | 93109                               | 39W                         | 3200 lm                           | 4000 K                                   |
| WARS LED PANEL 2X120 CB 4000K | 93110                               | 49W                         | 4500 lm                           | 4000 K                                   |
| WARS LED PANEL 1X150 CB 4000K | 93111                               | 49W                         | 4900 lm                           | 4000 K                                   |
| WARS LED PANEL 2X150 CB 4000K | 93112                               | 60W                         | 5800 lm                           | 4000 K                                   |

AKCESORIA / ACCESSORIES

| Wykonanie produktu / Product version  | Numer katalogowy / Catalogue number |
|---|-------------------------------------|
| Zestaw do montażu zwieszanego / Suspended mounting kit  | 93075                               |
| Zestaw klipsów INOX do Wars Led Panel 6 sztuk * / Set of INOX clips for Wars Led Panel 6 pcs. *     | 93231                               |
| Zestaw klipsów INOX do Wars Led Panel 10 sztuk ** / Set of INOX clips for Wars Led Panel 10 pcs. ** | 93232                               |

\* użycie: 1 zestaw do opraw 1x60 lub 2x60; 2 zestawy do opraw 1x150 lub 2x150 / use: 1 set for 1x60 or 2x60 luminaires; 2 sets for 1x150 or 2x150 luminaires

\*\* użycie: 1 zestaw do opraw 1x120 lub 2x120 / use: 1 set for 1x120 or 2x120 luminaires

