

marcal

www.marcal.fr

# pharos

| balise photovoltaïque autonome





**panneau photovoltaïque sur verre trempé**  
solar panel (PV) on tempered glass, panel fotovoltaico sobre vidrio templado,  
pannello fotovoltaico su vetro temperato, photovoltaik-panel auf gehärtetem glas,  
緩和されたガラスの太陽電池パネル, لوحة فولطية ضوئية على زجاج صلب

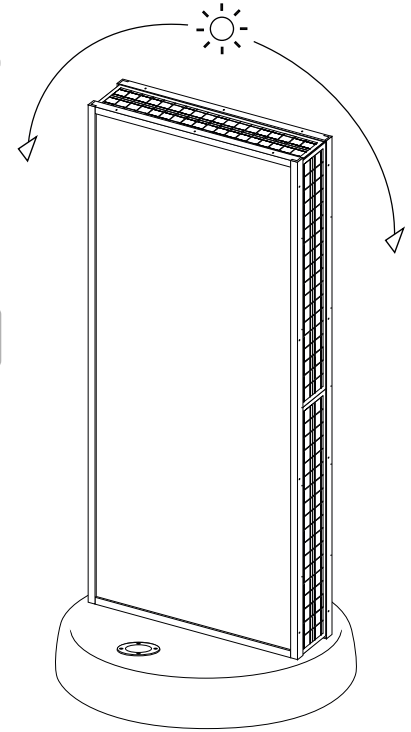
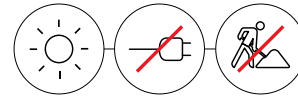
**aluminium: anodisé noir**  
black anodized, anodizado negro, anodizzato nero,  
eloxiert schwarz, ألومنيوم مؤكسد اسود

**bois classe 4** | class 4 wood,  
madera clase 4, legno di classe 4, typ 4 holz,  
外部で処理された木材, خشب صلب مخروط





**ballast de béton** | concrete ballast,  
base contrapeso de hormigón, base di cemento,  
betonballast, コンクリート基礎, كتلة خرسانية

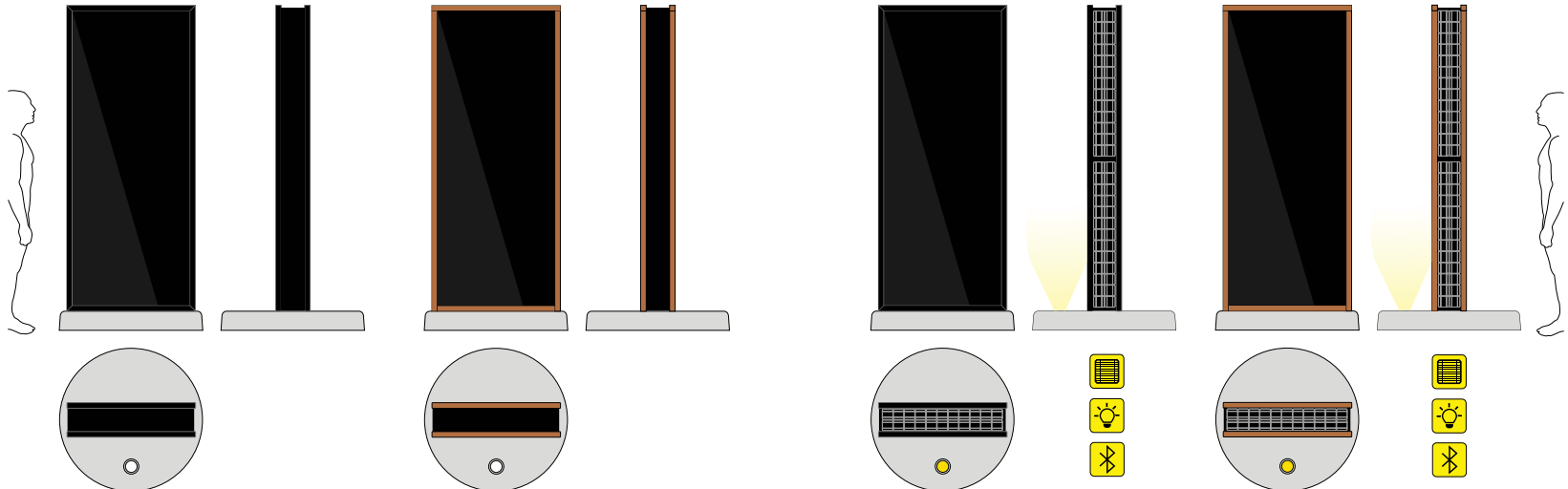


**aluminium** | アルミ | ألومنيوم  
**verre trempé noir** | black tempered glass, vidrio templado negro,  
vetro nero temperato, schwarz gehärtetem glas,  
黒の強化ガラス, زجاج صلب أسود



2h ☀️ = 7h 💡

-  Verre trempé monocristallin 90W
-  264 Wh - 22Ah - 12V
-  LED - 12V - 5W  
550 Lm - 50,000 h
-  Bluetooth™ MPPT charge controller  
BatteryLife Algorithm



**ballast 820** Ø 900mm (35,43'')

**ballast 820** Ø 900mm (35,43'')

**ballast 820** Ø 900mm (35,43'')

**ballast 820** Ø 900mm (35,43'')

**pharos 820 A**

- ☐ w 794 x h 1914 x d 200mm  
w 31,26 x h 75,35 x d 7,87"
- ☐ w 750 x h 1860 x d 200mm  
w 29,92 x h 73,23 x d 7,87"

**pharos 820 B**

- ☐ w 810 x h 1922 x d 216mm  
w 31,89 x h 75,67 x d 8,5"
- ☐ w 740 x h 1850 x d 216mm  
w 29,13 x h 72,83 x d 8,5"

**pharos 820 PV A**

- ☐ w 794 x h 1914 x d 200mm  
w 31,26 x h 75,35 x d 7,87"
- ☐ w 750 x h 1860 x d 200mm  
w 29,92 x h 73,23 x d 7,87"

**pharos 820 PV B**

- ☐ w 810 x h 1922 x d 216mm  
w 31,89 x h 75,67 x d 8,5"
- ☐ w 740 x h 1850 x d 216mm  
w 29,13 x h 72,83 x d 8,5"

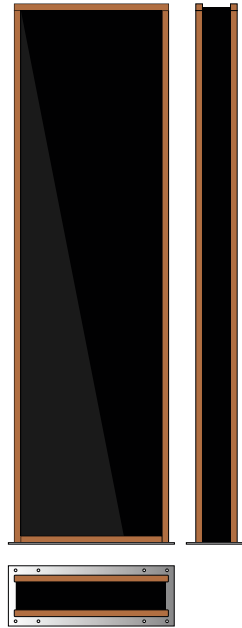
**ballast 820** béton autoportant non inclus (kit de fixation supplémentaire disponible en option)  
self-supporting concrete ballast not included (available supplementary installation kit)

**ballast 820** béton autoportant non inclus (kit de fixation supplémentaire disponible en option) / système d'éclairage inclus avec PV  
self-supporting concrete ballast not included (available supplementary installation kit) / lightning system included with solar cells



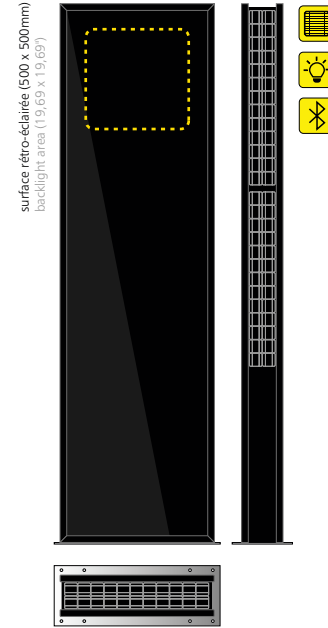
**pharos 830 A**

- ☐ w 794 x h 2814 x d 200mm  
w 31,26 x h 110,79 x d 7,87"
- ☐ w 750 x h 2760 x d 200mm  
w 29,92 x h 108,66 x d 7,87"



**pharos 830 B**

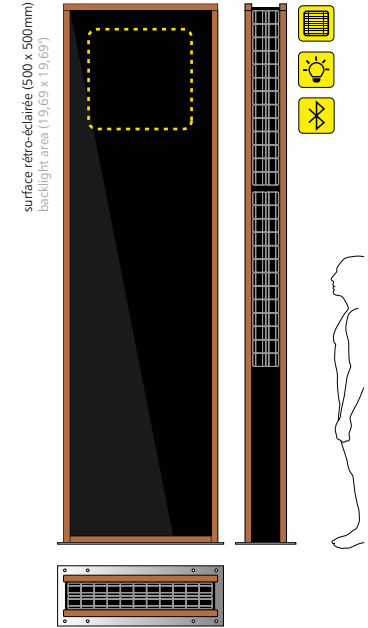
- ☐ w 810 x h 2822 x d 216mm  
w 31,89 x h 111,1 x d 8,5"
- ☐ w 740 x h 2750 x d 216mm  
w 29,13 x h 108,27 x d 8,5"



surface rétro-éclairée (500 x 500mm)  
backlight area (19,69 x 19,69")

**pharos 830 PV A**

- ☐ w 794 x h 2814 x d 200mm  
w 31,26 x h 110,79 x d 7,87"
- ☐ w 750 x h 2760 x d 200mm (500 x 500mm)  
w 29,92 x h 108,66 x d 7,87" (19,69 x 19,69")

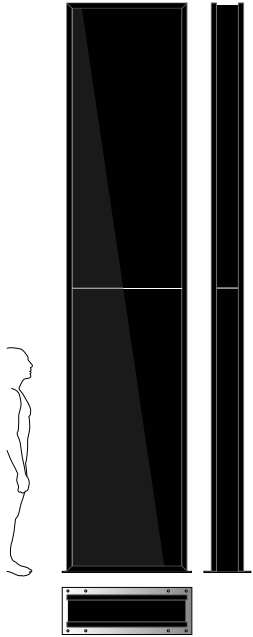


surface rétro-éclairée (500 x 500mm)  
backlight area (19,69 x 19,69")

**pharos 830 PV B**

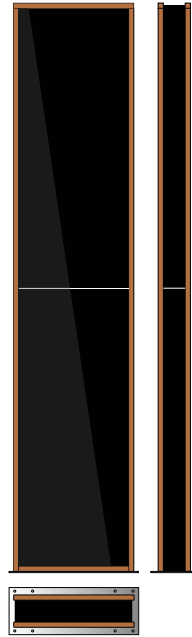
- ☐ w 810 x h 2822 x d 216mm  
w 31,89 x h 111,1 x d 8,5"
- ☐ w 740 x h 2750 x d 216mm (500 x 500mm)  
w 29,13 x h 108,27 x d 8,5" (19,69 x 19,69")

rétro-éclairage 500x500mm inclus avec PV / système d'éclairage indirect disponible en option  
backlighting 19,69x19,69" included with solar cells system / available indirect lightning system



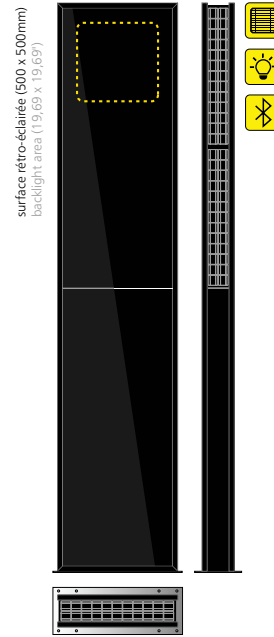
**pharos 840 A**

- ☐ w 794 x h 3814 x d 200mm  
w 31,26 x h 150,16 x d 7,87"
- ☐ w 750 x h 3760 x d 200mm  
w 29,53 x h 148,03 x d 7,87"



**pharos 840 B**

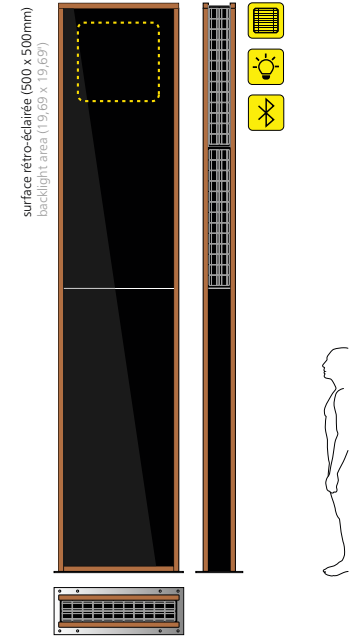
- ☐ w 810 x h 3822 x d 216mm  
w 31,89 x h 150,47 x d 8,5"
- ☐ w 740 x h 3750 x d 216mm  
w 29,13 x h 147,64 x d 8,5"



surface rétro-éclairée (500 x 500mm)  
backlight area (19,69 x 19,69")

**pharos 840 PV A**

- ☐ w 794 x h 3814 x d 200mm  
w 31,26 x h 150,16 x d 7,87"
- ☐ w 750 x h 3760 x d 200mm (500 x 500mm)  
w 29,53 x h 148,03 x d 7,87" (19,69 x 19,69")



surface rétro-éclairée (500 x 500mm)  
backlight area (19,69 x 19,69")

**pharos 840 PV B**

- ☐ w 810 x h 3822 x d 216mm  
w 31,89 x h 150,47 x d 8,5"
- ☐ w 740 x h 3750 x d 216mm (500 x 500mm)  
w 29,13 x h 147,64 x d 8,5" (19,69 x 19,69")

rétro-éclairage 500x500mm inclus avec PV  
backlighting 19,69x19,69" included with solar cells system