

CHALLENGE SOLAR

APPARECCHI FOTOVOLTAICI - SOLAR FITTINGS



Scheda elettronica

Scheda elettronica computerizzata PWM per gestione carica/scarica batteria ed accensione/spengimento apparecchio. A richiesta è disponibile un programmatore per la personalizzazione delle impostazioni della scheda.

Batteria piombo GEL 12V 105Ah C20 o 162Ah C20 interna al contenitore a cima palo

Tensione 12V DC
Capacità 105/162Ah C20, 1200Wh
(con tempo di scarica 20h e circa 3800 cicli)
Dimensioni 306x168x211mm
Peso 28.3 Kg
Temperatura: -20°C÷50°C

Immune dal rischio di sversamento accidentale dell'acido liquido. Adatta ad installazioni in prossimità di persone e di apparati elettronici. Vita utile di una batteria al gel circa 4 volte superiore a quella di una comune batteria ad acido.

Pannello fotovoltaico

Pannello fotovoltaico, 1x100Wp/2x100Wp testa palo
Silicio monocristallino
Vetro temperato ad alta trasmittanza 4mm
Resistenza alla grandine Ø25mm a 75km/h

Contenitore IP44

SMC (Vetroresina)
Resistenza alla fiamma
Resistenza alle correnti superficiali
Resistenza all'impatto

Corpo illuminante

Guarnizioni in silicone
Verniciatura in polveri poliesteri con pretattamento speciale per esterni
Conforme alle leggi regionali contro l'inquinamento luminoso
Viteria in acciaio inox A2
Diffusore con lente in silicone
Supporto ottica in alluminio anodizzato alettato
Corpo in acciaio zincato a caldo anodizzato e verniciato
Vano cablaggio in tecnopolimero rinforzato e verniciato
Pressacavo M20x1,5mm per cavo Ø6-12mm max con integrata una valvola osmotica per evitare qualsiasi rischio di condensa
Ottica asimmetrica trasparente in silicone LEDIL ad elevate prestazioni con Led CREE

Electronic circuit board

Computerised electronic circuit board PWM managing the charge/discharge of the battery and the on/off of the light fitting. Circuit settings programmer available on request.

Lead acid gel battery 12V 105Ah C20 or 162Ah C20 placed inside the battery box located on the top of the pole

Voltage: 12V DC
Capacity: 105/162Ah, 1200Wh
(time of discharge 20h and approx. 3800 cycles)
Dimensions: 306x168x211mm
Weight: kg. 28,30
Temperature range: -20°C÷50°C

Free from the risk of accidental spillage of the liquid acid. Suitable for installation in close proximity to people and to electronic equipment. Battery life 4 times higher than a common acid battery.

Solar panel

Solar panel 1x100Wp/2x100Wp made of silicon monocrytalline
Highly transmittant tempered glass 4mm thickness
Hail resistant Ø25mm at 75km/h

Battery box IP44

Body in SMC (fiberglass)
Fire resistant
Protected against flash-over currents
Resistant to impacts

Light fitting

Silicone gaskets
Polyester powder coating after a treatment specific for weathering resistance
Conforms to regional laws against light pollution
A2 stainless steel screws
Transparent diffuser with silicone lens
Finned anodised aluminium heat sink
Anodised and painted hot-dip galvanised steel body
Reinforced and painted thermoplastic wiring compartment
Metric cord block M20x1,5mm for Ø6mm to Ø12mm cables complete with a vent valve to prevent condensation
High-performance LEDIL silicone asymmetric optics including one CREE LED

CHALLENGE SOLAR 24

APPARECCHI FOTOVOLTAICI - SOLAR FITTINGS

LED

24W - 4000K - max **4269 lm**

■ Nero - Black

CUT-OFF

Testapalo completo di pannello singolo orientabile 100Wp, contenitore in vetroresina con al suo interno 1 batteria piombo GEL 12V 105Ah C20, scheda elettronica per la gestione della batteria e dell'accensione dell'apparecchio e corpo illuminante Challenge 24W

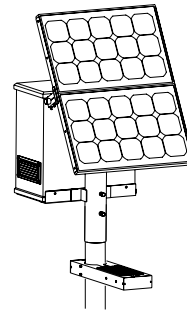
Pole top complete with:
100Wp adjustable solar panel, one fiberglass battery box with one lead acid gel battery 12V 105Ah C20, the electronic circuit board managing the charge/discharge of the battery and the on/off of the light fitting
Light fitting Challenge 24W



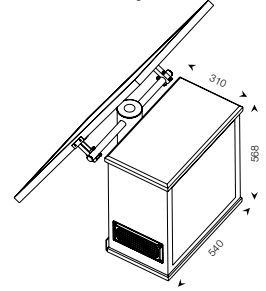
Potenza Power	Colore Colour	Codice Code	■
■ 24W 4000K max 4269 lm	■	1570.182N	1

ACCESSORIO OPZIONALE OPTIONAL ACCESSORY

Programmatore per la personalizzazione della scheda Circuit settings programmer available on request	CS160023	1
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Contenitore piccolo IP44
IP44 small battery box



CHALLENGE SOLAR 24 LL

APPARECCHI FOTOVOLTAICI - SOLAR FITTINGS

LED

24W - 4000K - max **4269 lm**

■ Nero - Black

CUT-OFF

Testapalo completo di pannello doppio orientabile 2x100Wp, contenitore in vetroresina con al suo interno 1 batteria piombo GEL 12V 162Ah C20, scheda elettronica per la gestione della batteria e dell'accensione dell'apparecchio e corpo illuminante Challenge 24W

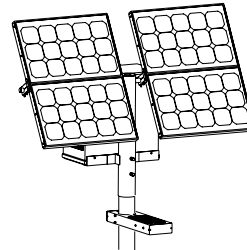
Pole top complete with:
2x100Wp adjustable solar panel, one fiberglass battery box with one lead acid gel batteries 12V 162Ah C20, the electronic circuit board managing the charge/discharge of the battery and the on/off of the light fitting
Light fitting Challenge 24W



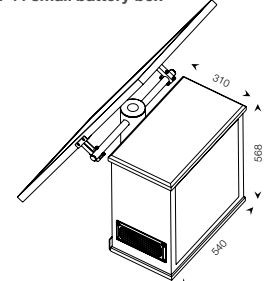
Potenza Power	Colore Colour	Codice Code	■
■ 24W 4000K max 4269 lm	■	1571.482N	1

ACCESSORIO OPZIONALE OPTIONAL ACCESSORY

Programmatore per la personalizzazione della scheda Circuit settings programmer available on request	CS160023	1
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Contenitore piccolo IP44
IP44 small battery box



CHALLENGE SOLAR 36

APPARECCHI FOTOVOLTAICI - SOLAR FITTINGS

LED

36W - 4000K - max **6081 lm**

■ Nero - Black

CUT-OFF

Testapalo completo di pannello doppio orientabile 2x100Wp, contenitore in vetroresina con al suo interno 2 batterie piombo GEL 12V 105Ah C20, scheda elettronica per la gestione della batteria e dell'accensione dell'apparecchio e corpo illuminante Challenge 36W

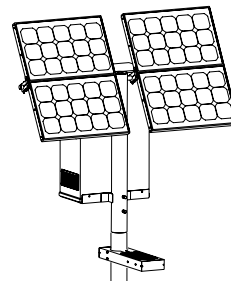
Pole top complete with:
2x100Wp adjustable solar panel, one fiberglass battery box with two lead acid gel batteries 12V 105Ah C20, the electronic circuit board managing the charge/discharge of the battery and the on/off of the light fitting
Light fitting Challenge 36W



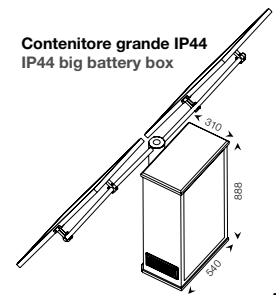
Potenza Power	Colore Colour	Codice Code	■
■ 36W 4000K max 6081 lm	■	1572.182N	1

ACCESSORIO OPZIONALE OPTIONAL ACCESSORY

Programmatore per la personalizzazione della scheda Circuit settings programmer available on request	CS160023	1
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Contenitore grande IP44
IP44 big battery box



CHALLENGE SOLAR SYSTEM TONDO - ROUND

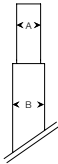
APPARECCHI FOTOVOLTAICI - SOLAR FITTINGS

■ Nero - Black

Il Challenge system tondo, è valido per un coefficiente di ventosità Vref=27m/s
Challenge system round is wind speed tested Vref=27m/s



AØ60
BØ102



Asola e morsettiera 4x16mm² CLII con porta fusibile e portello di chiusura
Chiave apertura/chiusura portello a richiesta (Cod. 1440.000 N)

Verniciatura a polvere con pretattamento speciale per esterni

Viteria in acciaio inox A2

Palo interrato - System A

Palo cilindrico in acciaio zincato a caldo 75µm UNI EN 1461 Ø127/102x5800mm, Ø152/139/102x7800mm, per montaggio interrato

Palo flangiato - System B

Palo cilindrico completo di flangia in acciaio zincato a caldo 75µm UNI EN 1461 per montaggio su plinto/pavimentazione

Palo Ø127/102x5000mm
Flangia 250x250mm spessore 15mm

Palo Ø152/139/102x7000mm
Flangia 350x350mm spessore 20mm

Hole and terminal block 4x16mm² CLII with fuse holder and inspection door
On request inspection door opening/closing key (Cod. 1440.000N)

Polyester powder coating after a treatment specific for weathering resistance

A2 stainless steel screws

Buried pole - System A

Cylindrical pole Ø127/102x5800mm, Ø152/139/102x7800mm, for ground fixing made of hot-dip galvanised steel 75µm UNI EN 1461

Flanged pole - System B

Cylindrical pole for plinth/floor fixing complete with flange made of hot-dip galvanised steel 75µm UNI EN 1461

Pole Ø127/102x5000mm
Flange 250x250mm 15mm thickness

Pole Ø152/139/102x7000mm
Flange 350x350mm 20mm thickness

Palo a norme DIN Pole conforming to DIN norms

SYSTEM A BURIED POLE

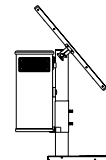
Altezza totale Total height	Altezza fuori terra Total ground height	Colore Colour	Codice Code	📦
5800mm	5000mm	■	1560.100N	1
7800mm	7000mm	■	1560.200N	1

SYSTEM B FLANGED POLE

5000mm	5000mm	■	1561.100N	1
7000mm	7000mm	■	1561.200N	1

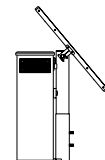
Altezza del punto luce
Height of the light fitting

24
24 LL



4500mm

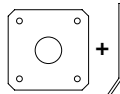
36



6500mm

Kit controflangia e tirafondi obbligatorio Compulsory counter flange and anchor bolt kit

Codice
Code
4000.0006 1

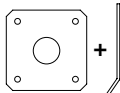


Plinto consigliato
Suggested plinth
1000x1000x1200mm

Palo Ø127/102x5000mm
Controflangia 250x250mm spessore 3mm
Tirafondi M16x700mm completi di dado in acciaio zincato
Pole Ø127/102x5000mm
Counterflange 250x250mm 3mm thickness
M16x700mm anchor bolts complete with galvanised steel nuts

Kit controflangia e tirafondi obbligatorio Compulsory counter flange and anchor bolt kit

Codice
Code
4000.0007 1



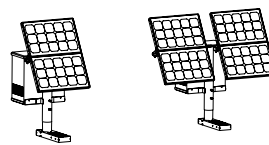
Plinto consigliato
Suggested plinth
1000x1000x1200mm

Palo Ø152/139/102x7000mm
Controflangia 350x350mm spessore 3mm
Tirafondi M20x700mm completi di dado in acciaio zincato
Pole Ø152/139/102x7000mm
Counterflange 350x350mm 3mm thickness
M20x700mm anchor bolts complete with galvanised steel nuts

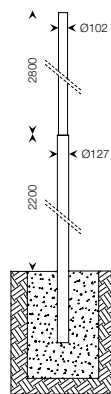
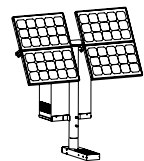
Combinazioni consigliate con CHALLENGE SOLAR SYSTEM TONDO CHALLENGE SOLAR SYSTEM ROUND

24

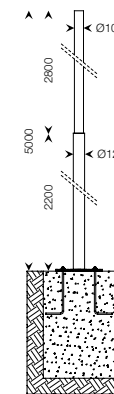
24 LL



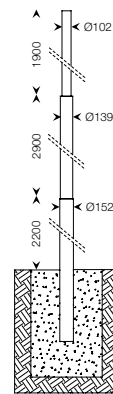
36



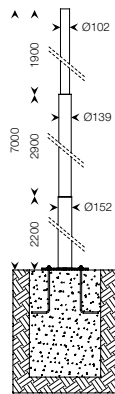
System A



System B



System A



System B