MADE IN FRANCE
MANUFACTURER SINCE 1964

NOUVEAUTÉS • NEW • NEUHEITEN

GYS
INVEST IN THE FUTURE

# Chargers, Boosters & Starters

## Catalogue Chargeurs • Batterieservicegeräte-Katalog • Catálogo de Cargadores

CHARGERS • BOOSTERS • STARTERS • TESTERS • JUMPER CABLES • ACCESSORIES

2014
www.gys.fr

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Export in 104 Länder

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Familienbetrieb
X 450

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Warwick

**GYS Germany**
Aachen

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Shanghaï

**GYS India**
Coimbatore

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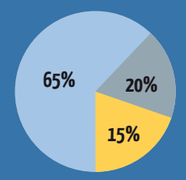
Products
Produkte




**100 %** Production intégrée
In-house Manufacturing
Integrierter Produktion

**Centre de R&D**
R&D Center
F&E Zentrum

**Mécanique**
Mechanics
Mechanik

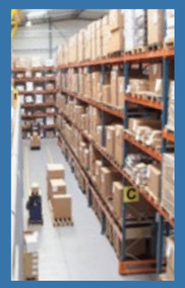
**Tôlerie / Filerie**
Metal work / Cable work
Blechfabrik / Verdrahtung

**Transformateurs**
Transformers
Transformator

**Electronique**
Electronics
Elektronik

**Montage**
Assembly
Montage

**Logistique**
Logistics
Logistik



# Your Charger Partner

Votre Partenaire Chargeur

Produktvielfalt, die Überzeugt

## Chargers

## Boosters & Starters

## Jumper cables, Testers & Accessories

Awards

European Business Awards 2009
Territoire Innovation 2010
Franco British Business Awards Innovation 2010
Golden Key 2012
Trophées de l'Innovation Industrie Lyon 2013
Champion of Growth 2007
Innovation 2009
Innovation 2010
NRW.Invest Award 2012
Trophée Export 2006
Equip Auto 2009
Marketing 2010
Export 2010

Homologations

Renault, Peugeot, Citroën, Mercedes, Toyota, Ford, Alfa Romeo, smart, Lancia, EvoBus, Honda, Hyundai, Nissan, Fiat, Abarth, Jeep, Volvo, Land-Rover, Jaguar, Maserati, Dodge, Opel, Chevrolet, Ferrari

Certifications

GYL, CESVI France, Thatcham Quality Assured, ktd, FOCWA, TÜVRheinland Certified ISO 9001

# CHARGERS TRADITIONAL

W

p. 35

| 3 A | 12V |
|---|---|
| ENERGY 124 | |

Ref. **023215**
Ref. **025141**

| 4 A | 12V |
|---|---|
| ENERGY 126 | |

Ref. **023222**
Ref. **025165**

# CHARGERS AUTOMATIC

WU

p. 35

PATENTS REGISTERED NUMBERS
001652090-0001
EUROPEAN TRADEMARK & DESIGN

TCB 60 / 90 / 120

| 2/4 A | 12V |
|---|---|
| TCB 60 | |

Ref. **023253**
Ref. **025189**

| 2/5,5 A | 12V |
|---|---|
| TCB 90 | |

Ref. **023260**
Ref. **025202**

| 3,5/7 A | 12V |
|---|---|
| TCB 120 | |

Ref. **023284**
Ref. **025240**

# CHARGER AUTOMATIC & STARTER

W2

p. 35

PATENTS REGISTERED NUMBERS
001652090-0002
EUROPEAN TRADEMARK & DESIGN

START UP 80

| 9/17 A | 12V |
|---|---|
| START UP 80 | |

Ref. **024922**
Ref. **025127**

**3 in 1**
=
**CHARGE**
+
**TEST**
+
**START**

Fuse X10

**10A** : Ref.054530
**15A** : Ref.054493

| | | | 50 / 60 Hz | | | CHARGE Reg | CHARGE Efficace / RMS | CHARGE Moyen / Average (EN 60335) | START 1 V/C | Fuse | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ENERGY 124** | 023215 | 025141 | 230V | 70W | **12V** | — | 4,5 A | 3 A | — | 10 A | 11,5 x 16 x 22 cm | 2,2 kg |
| **ENERGY 126** | 023222 | 025165 | 230V | 90W | **12V** | — | 6 A | 4 A | — | 10 A | 11,5 x 16 x 22 cm | 2,2 kg |
| **TCB 60** automatic | 023253 | 025189 | 230V | 85W | **12V** | 2 | 6 A | 2 - 4 A | — | 10 A | 12 x 17 x 29 cm | 2,7 kg |
| **TCB 90** automatic | 023260 | 025202 | 230V | 120W | **12V** | 2 | 8 A | 2 - 5,5 A | — | 15 A | 12 x 17 x 29 cm | 3,4 kg |
| **TCB 120** automatic | 023284 | 025240 | 230V | 150W | **12V** | 2 | 10,5 A | 3,5 - 7 A | — | 15 A | 12 x 17 x 29 cm | 3,2 kg |
| **START UP 80** automatic | 024922 | 025127 | 230V | 350W | **12V** | 2 | 13,5-25 A | 9 - 17 A | 50 A | — | 12 x 18 x 32 cm | 4,4 kg |

| Recommendation | | Essence • Petrol • Benzin | | | Diesel | | CHARGER + TESTER | BOOST | CONTROL (Bzz) |
|---|---|---|---|---|---|---|---|---|---|
| **ENERGY 124** | 12V | | | 10 > **45 Ah** | | | — | — | — |
| **ENERGY 126** | 12V | | | 15 > **60 Ah** | | | — | — | — |
| **TCB 60** automatic | 12V | 15 > **60 Ah** | | | | | OK | — | OK |
| **TCB 90** automatic | 12V | 15 > **90 Ah** | | | | | OK | — | OK |
| **TCB 120** automatic | 12V | | | | 30 > **120 Ah** | | OK | — | OK |
| **START UP 80** automatic | 12V | | | | 45 > **170 Ah** | | OK | OK | OK |

CE
CE NORM. 60335-2-29
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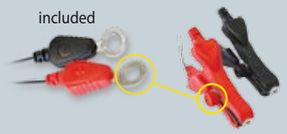
# CHARGERS HF • INVERTER

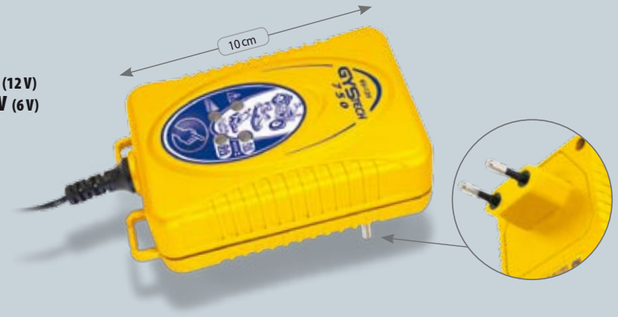
p. 35

## 0,75 A | 6/12V
### GYSTECH 750
Ref. **024977**

> 7,5 V (12 V)
> 3,75 V (6 V)

included






## 3,8 A | 12V
### GYSTECH 3800
Ref. **024939**

COLD CHARGE < 0°C > 0°C

> 7,5 V

OPTION Ref 053137 :
Kit allume cigare /
Cigarette lighter adaptater /
Adapterkit für Zigarettenanzünder

## 3,5/7 A | 12/24V
### GYSTECH 7000
Ref. **024953**

COLD CHARGE < 0°C > 0°C

> 16 V (24 V)
> 4,5 V (12 V)

PRODUCT LINE

Fuse X10 (for accessories)
**10A** : Ref.054530

| | | 50 / 60 Hz | | CHARGE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Efficace / RMS | Moyen / Average (EN 60335) | Recover | Fuse | | |
| **GYSTECH 750** | 024977 | 230V | 16,5 W | **6 / 12 V** | 0,75 A | 0,75 A | — | — | 12 x 16 x 24 cm | 0,3 kg |
| **GYSTECH 3800** | 024939 | 230V | 60W | **12 V** | 0,8 - 3,8 A | 0,8 - 3,8 A | — | 10 A | 10 x 27,5 x 26 cm | 0,7 kg |
| **GYSTECH 7000** | 024953 | 230V | 160W | **12 V** | 7 A | 7 A | • | 10 A | 10 x 31 x 29 cm | 1,3 kg |
| | | | | **24 V** | 3,5 A | 3,5 A | | | | |

| Recommendation | | Essence • Petrol • Benzin | Diesel | Supply 5 A 12V DC | IP |
|---|---|---|---|---|---|
| **GYSTECH 750** | 6V 12V | 1,2 > **20 Ah** | | — | IP 60 |
| **GYSTECH 3800** | 12V | Charge 1,2 > **60 Ah** (Maintenance 1,2 > **120 Ah**) | | — | IP 65 |
| **GYSTECH 7000** | 12V 24V | **12 V :** Charge 14 > **130 Ah** (Maintenance 14 > **230 Ah**)<br>**24 V :** Charge 14 > **60 Ah** (Maintenance 14 > **120 Ah**) | | • | IP 65 |

CE
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I REGULATED IUoU FAST CHARGE p. 35 | IP 65 | COLD CHARGE < 0°C > 0°C | > 1 V | BEST QUALITY !

## 3,8 A | 12V
### GYSFLASH 4A
Ref. **029156**

NEW 03/2014

OPTION Ref 053519 :
Kit allume cigare /
Cigarette lighter adaptater /
Adapterkit für Zigarettenanzünder

PATENTS REGISTERED NUMBERS 002280008 & 002279927
EUROPEAN TRADEMARK & DESIGN

## 7 A | 12V
### GYSFLASH 7A
Ref. **029187**

| | | 50 / 60 Hz | | | Start mini | Moyen / Average (EN 60335) | Equalize/Absorption | | Floating | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **GYSFLASH 4A** | 029156 | 170 > 260 V | 90 W | **12 V** | 1 V | 0,8 - 3,8 A | 14,6 V (T > 0°) | 15 V (T < 0°) | 13,6 V | 36 x 18,5 x 7 cm | 0,9 kg |
| **GYSFLASH 7A** | 029187 | 170 > 260 V | 160 W | **12 V** | 1 V | 0,8 - 7 A | 14,6 V (T > 0°) | 15 V (T < 0°) | 13,6 V | 38,5 x 20,5 x 7 cm | 1,1 kg |

| Recommendation | | | IP | SOS RECOVERY |
|---|---|---|---|---|
| **GYSFLASH 4A** | 12V | **On board/Embarqué** 1,2 > **70 Ah** (Maintenance 1,2 > **130 Ah**) | IP 65 | Automatic |
| **GYSFLASH 7A** | 12V | **On board/Embarqué** 1,2 > **130 Ah** (Maintenance 1,2 > **230 Ah**) | IP 65 | Automatic |

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INVERTER HF CHARGERS

# CHARGERS HF • INVERTER

MICRO-PROCESSOR CONTROL

p. 35

**2/12 A** | 12V

**GYSTECH 12/12**

Ref. **024984**

GO > 5 V

# CHARGERS HF • INVERTER ON BOARD

I REGULATED IUoU FAST CHARGE

p. 35

MICRO PROCESSOR CONTROL

GO > 1 V

Résine/Resin/Harz/Resina

VIBRATIONS / VIBRATIONEN / VIBRATIONES PROTECTED

ULTRA SHOCK RESISTANT

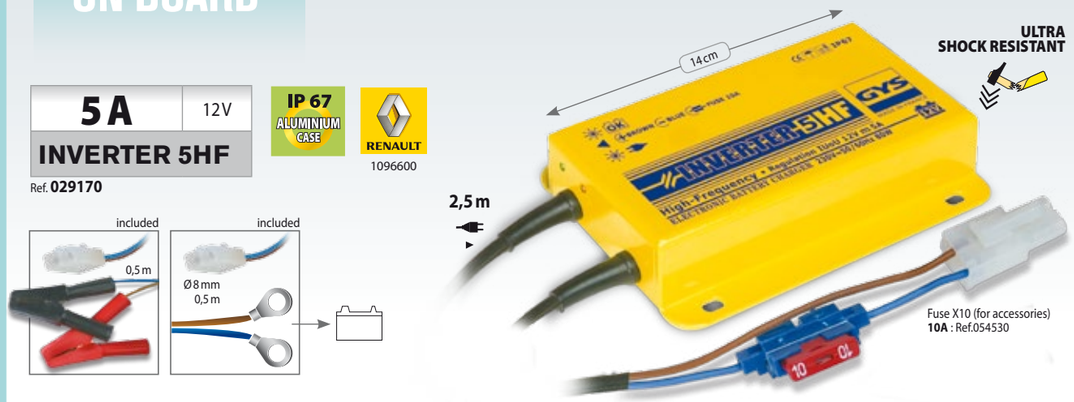
**5 A** | 12V

**INVERTER 5HF**

Ref. **029170**

IP 67 ALUMINUM CASE

RENAULT 1096600




| Recommendation | | | | | | | | | | IP | SOS RECOVERY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **GYSTECH 12/12** | 12V | 12V : Charge 2 > **200 Ah** (Maintenance 2 > **250 Ah**) | | | | | | | | | • |
| **INVERTER 5HF** | 12V | On board/Embarqué 20 > **100 Ah** (Maintenance 20 > **160 Ah**) | | | | | | | | IP 20 | — |

| | | 50 / 60 Hz | | | Start mini | Moyen / Average (EN 60335) | Equalize/Absorption | Floating | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **GYSTECH 12/12** | 024984 | 230V | 200 W | **12V** | 5V | 2 A-12 A | — | — | 22 x 26,5 x 8 cm | 1,2 kg |
| **INVERTER 5HF** | 029170 | 230V | 80 W | **12V** | 1V | 5 A | 14,8 V (liquid) | 13,8 V | 20,5 x 12,5 x 7 cm | 0,9 kg |

CE

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# CHARGERS TRADITIONAL

W

p. 35

**9 A** | 12/24V

**CT 160**

Ref. **024106** Ref. **025325**

**12 A** | 12/24V

**CT 210**

Ref. **024113** Ref. **025349**

Fuse X10

**15A** : Ref.054493 ( CT 160)

**20A** : Ref.054509 ( CT 210)

PRODUCT LINE

| Recommendation | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CT 160** | 12V 24V | (12V) 25 > **160 Ah**<br>(24V) 15 > **90 Ah** | | | | | |
| **CT 210** | 12V 24V | (12V) 35 > **210 Ah**<br>(24V) 20 > **100 Ah** | | | | | |

| | | | | | CHARGE | | | | | Fuse | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Reg | Efficace / RMS | Moyen / Average (EN 60335) Reg 1 | Reg 2 | | | |
| **CT 160** | 024106 | 025325 | 230V, 50 / 60 Hz | 190 W | **12 / 24V** | 12V > | 2 | 13,5 A | 7 A | 9 A | 15 A | 20,5 x 30 x 13,5 cm | 3,9 kg |
| | | | | | | 24V > | 2 | 7,5 A | 3 A | 5 A | | | |
| **CT 210** | 024113 | 025349 | 230V, 50 / 60 Hz | 260 W | **12 / 24V** | 12V > | 2 | 18 A | 8 A | 12 A | 20 A | 22,5 x 33,5 x 14,5 cm | 5,2 kg |
| | | | | | | 24V > | 2 | 9 A | 4 A | 6 A | | | |

CE

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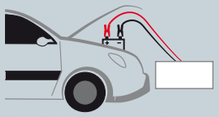
# CHARGERS AUTOMATIC & MANUAL

W2

p. 35



Protection for on-board electronics

## 12 A — 12/24V
**CA 170**
Ref. **024397**

## 15 A — 12/24V
**CA 225**
Ref. **024441**

## 25 A — 6/12/24V
**CA 350**
Ref. **024489**

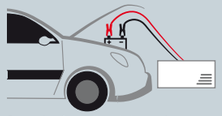
Fuse X10

**15A** : Ref.054493 (WATTMATIC 100)
**20A** : Ref.054509 (WATTMATIC 150)
**25A** : Ref.054516 (CA 170, CA 350, WATTMATIC 180)
**30A** : Ref.054523 (CA 225)

# CHARGERS AUTOMATIC

WUoU

p. 35



Protection for on-board electronics

## 6,5 A — 6/12V
**WATTMATIC 100**
Ref. **024823** Ref. **025417**

## 10 A — 6/12V
**WATTMATIC 150**
Ref. **024847** Ref. **025387**

## 12 A — 6/12V
**WATTMATIC 180**
Ref. **024861** Ref. **025400**

PATENTS REGISTERED NUMBERS
001652090-0002
EUROPEAN TRADEMARK & DESIGN

PRODUCT LINE

| | | | | | CHARGE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Reg | Efficace / RMS | Moyen / Average (EN 60335) Reg 1 | Reg 2 | Reg 3 | Fuse | | |
| **WATTMATIC 100** automatic | 024823 | 025417 | 230V, 50 Hz | 140 W | **6/12V** | 2 | 9,5 A | 3,5 A | 6,5 A | | 15 A | 23 x 26 x 12 cm | 4 kg |
| **WATTMATIC 150** automatic | 024847 | 025387 | 230V, 50 Hz | 220 W | **6/12V** | 2 | 15 A | 5 A | 10 A | — | 20 A | 21 x 35 x 13 cm | 6,2 kg |
| **WATTMATIC 180** automatic | 024861 | 025400 | 230V, 50 Hz | 260 W | **6/12V** | 2 | 18 A | 6 A | 12 A | — | 25 A | 21 x 35 x13 cm | 6,3 kg |
| **CA 170** automatic | 024397 | | 230V | 500 W | **12/24V** | 2 | 18 A | 7,5 A | 12 A | — | 25 A | 29 x 20 x 11 cm | 6 kg |
| **CA 225** automatic | 024441 | | 230V | 700 W | **12/24V** | 2 | 22 A | 8 A | 15 A | — | 30 A | 36 x 26 x 14 cm | 9,5 kg |
| **CA 350** automatic | 024489 | | 230V | 1 150 W | **6/12/24V** | 3 | 37 A | 7 A | 15 A | 25 A | 2 x 25 A | 40 x 27 x 17 cm | 14 kg |

| Recommendation | | |
|---|---|---|
| **WATTMATIC 100** automatic | 6V 12V | 15 > **100 Ah** |
| **WATTMATIC 150** automatic | 6V 12V | 20 > **150 Ah** |
| **WATTMATIC 180** automatic | 6V 12V | 25 > **180 Ah** |
| **CA 170** automatic | 12V 24V | 35 > **170 Ah** |
| **CA 225** automatic | 12V 24V | 35 > **225 Ah** |
| **CA 350** automatic | 6V 12V 24V | 40 > **350 Ah** |

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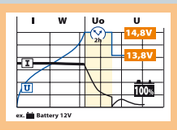
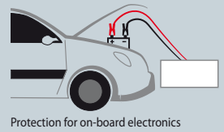
AUTOMATIC CHARGERS

# SMART CHARGERS AUTOMATIC

IWUoU p. 35




MICRO-PROCESSOR CONTROL




AUTO DETECT

## 7 A — 6/12V
### BATIUM 7/12
Ref. **024496** — Ref. **024557**

## 7 A — 6/12/24V
### BATIUM 7/24
Ref. **024502** — Ref. **024625**

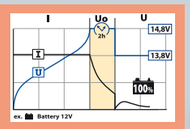
## 25 A — 6/12/24V
### BATIUM 25/24
Ref. **024533** — Ref. **024618**

I REGULATED IUoU FAST CHARGE & IUIo Specific charge Traction batteries

2 in 1

SULPHATED BATTERIES — SOS RECOVERY

I REGULATED IUoU FAST CHARGE p. 35

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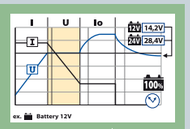



Traction Batteries

## 15 A — 6/12V
### BATIUM 15/12
Ref. **024519** — Ref. **024632**

SULPHATED BATTERIES — SOS RECOVERY

## 15 A — 6/12/24V
### BATIUM 15/24
Ref. **024526** — Ref. **024588**

SULPHATED BATTERIES — SOS RECOVERY

Fuse X10

**15A** : Ref.054493
( BATIUM 7/12 & 7/24)

**30A** : Ref.054523
( BATIUM 15/12 & 15/24)

PRODUCT LINE

| | | | 50 / 60 Hz | | CHARGE | | | | | | Fuse | | | SOS RECOVERY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Reg | Efficace / RMS | Moyen / Average (EN 60335) Reg 1 | Reg 2 | Reg 3 | | | | |
| **BATIUM 7/12** | 024496 | 024557 | 230V | 105 W | **6/12V** | 2 | 11 A | 3 A | 7 A | — | 15 A | 21 x 34 x 13 cm | 4,8 kg | — |
| **BATIUM 7/24** | 024502 | 024625 | 230V | 210 W | **6/12/24V** | 2 | 11 A | 3 A | 7 A | — | 15 A | 21 x 34 x 13 cm | 5,7 kg | — |
| **BATIUM 15/12** | 024519 | 024632 | 230V | 225 W | **6/12V** | 3 | 22 A | 7 A | 10 A | 15 A | 30 A | 21 x 36 x 14 cm | 5,9 kg | • |
| **BATIUM 15/24** | 024526 | 024588 | 230V | 450 W | **6/12/24V** | 3 | 22 A | 7 A | 10 A | 15 A | 30 A | 21 x 36 14 cm | 8,5 kg | • |
| **BATIUM 25/24** | 024533 | 024618 | 230V | 1 150 W | **6/12/24V** | 3 | 37 A | 7 A | 15 A | 25 A | — | 28 x 42 x 23 cm | 13,4 kg | • |

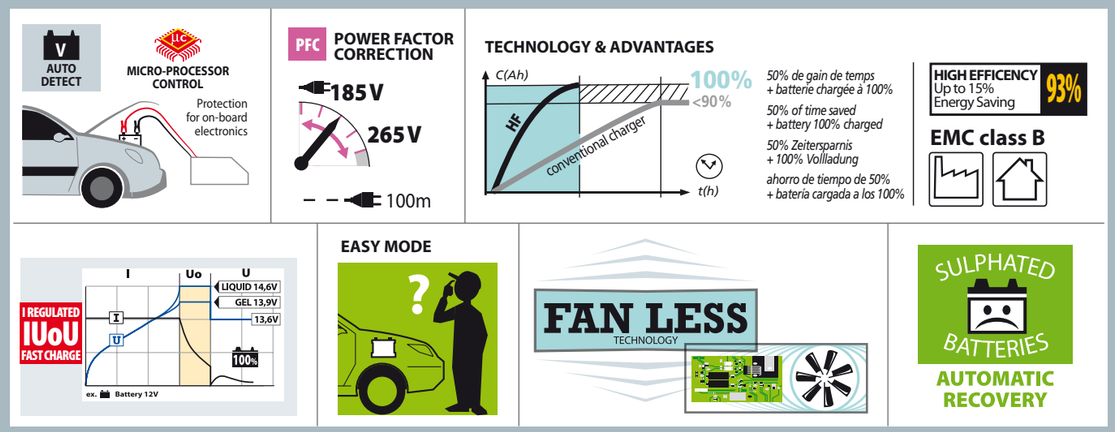
| Recommendation | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **BATIUM 7/12** | 6V 12V | — | 15 > **130 Ah** | | | | | | | | |
| **BATIUM 7/24** | 6V 12V 24V | — | 15 > **130 Ah** | | | | | | | | |
| **BATIUM 15/12** | 6V 12V | — | 35 > **225 Ah** | | | | | | | | |
| **BATIUM 15/24** | 6V 12V 24V | — | 35 > **225 Ah** | | | | | | | | |
| **BATIUM 25/24** | 6V 12V 24V | 35 > **180 Ah** | 35 > **350 Ah** | | | | | | | | |

CE — CE NORM. 60335-2-29 — MADE IN FRANCE





SMART AUTOMATIC CHARGERS



**Select mode**
- Charge
- Diag / Diag +
- Showroom
- Change battery
- Configuration

**Select parameters**
- Voltage
- Capacity
- Battery type
- Language
...

**Adjust values**
- V
- Ah
- Liquid / Gel / Easy mode
...

# CHARGERS & BSU
## (BATTERY SUPORT UNITS)

GO > 2 V

Tablette - Wall support
Halterung
Ref. 054592

Chariot
Trolley
Fahrwagen
Ref. 054608

Fuse Kit
40 A
054646

**30 A** 12 V
**GYSFLASH 30.12 HF**
Ref. 029224
PFC

NEW 11/2013

FUSE 6,3 A
054578

Option 5 m
Ref. 054615

Ref. 053526
5 m

OTAN

**30 A** 12/24V
**GYSFLASH 30.24 HF**
Ref. 029231
PFC

NEW 11/2013

| | | 50 / 60 Hz | | | START MINI | Imax 100% @40°C | CHARGE | | BSU Diag | BSU Diag+ | BSU SHOWROOM | Change Battery | Fuse | | | Recommendation | | | | | SULPHATED BATTERIES AUTOMATIC RECOVERY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GYSFLASH 30.12HF | 029224 | 230 V | 12 V | 540 W | 2 V | 30 A | 10>400 Ah | IUoU | 13,5 V | 12>14,8 V | 12>14,8 V | 12,9 V | 40 A | 25,5 x 23 x 10,5 cm | 3,8 kg | GYSFLASH 30.12HF | 12V | — | 10 > 400 Ah | | • |
| GYSFLASH 30.24HF | 029231 | 230 V | 12 V<br>24 V | 540 W | 2 V | 30 A<br>15 A | 10>400 Ah<br>10>200 Ah | IUoU | 13,5 V<br>— | 12>14,8 V<br>— | 12>14,8 V<br>— | 12,9 V<br>25,8 V | 40 A | 25,5 x 23 x 10,5 cm | 3,8 kg | GYSFLASH 30.24HF | 12V 24V | — | 12 V : 10 > 400 Ah<br>24 V : 10 > 200 Ah | | • |

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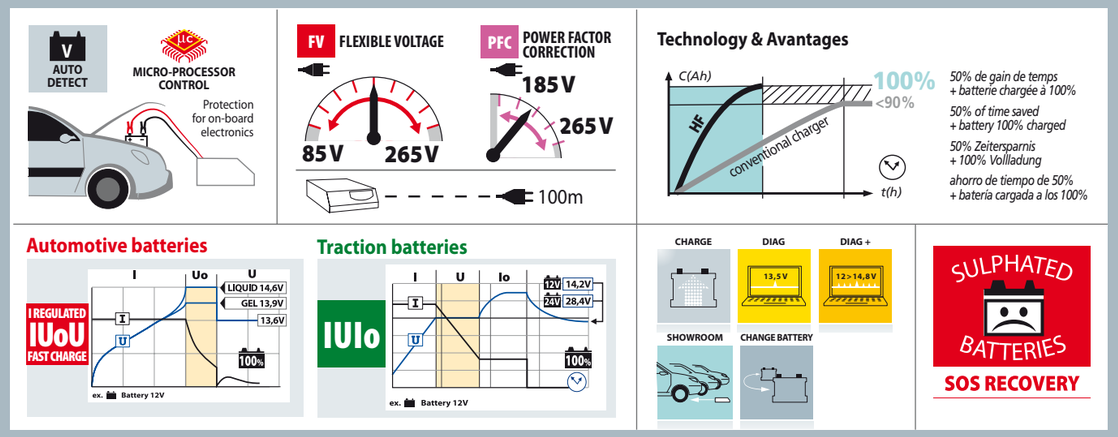



## EASY TO USE /Anwenderfreundlich
## GYSFLASH 75.12 HF

### PARAMETERS

**SETTING english**
7 langues. 7 languages. 7 Sprachen. 7 idiomas.

**CABLES TESTING Press START**
Vérification et étalonnage câbles et pinces. Checking & calibration of clamps and cables. Prüfung und Kalibierung der Kabel/Zangen. comprobación y calibración de los cables y pinzas.

**DELAYED CHARGE 03H32**
Minuteur pour différer la charge, temps restant avant le début de charge. Delayed charging with time remaining before start. Timer für Ladungsbeginn Restzeit bis Ladungsbeginn. Minutero para aplazar la carga Tiempo restante antes del comienzo de la carga

**SETTING Charge end:float**
En fin de charge, passage automatique en mode "floating" (charge de maintenance) courbe IUoU. D'origine cette action est active. Autres configurations possibles : arrêt total en fin de charge, reprise ou non de la charge si coupure de courant. At the end of the charge, the factory setting is to leave the charger in floating mode (IUoU). This can be modified, the 'change mode' function and be used to stop the charge completely. Bei Ladungsende, autom. Wechsel in Floating (Erhaltungsladung) Ladekurve IUoU Werkseinstellung Andere Konfigurationen möglich: Ladungsende, Fortsetzung der Ladung nach Stromausfall. En fin de carga, pasa automáticamente en modo "floating" (carga de mantenimiento) curva IUoU de origen, esta acción es activa Otras configuraciones posibles: Paro total en fin de carga, reanudación o no de la carga si hay corte de corriente.

### CONTROL PANELS

**CHARGE**
CHARGE 70A 13.2V
État de charge. Charge status. Ladezustand. Estado de carga.

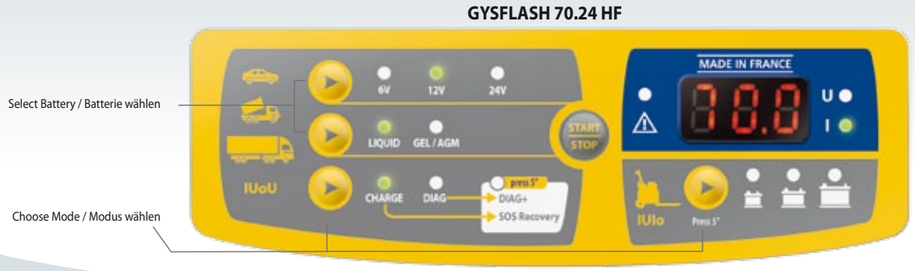
**CHANGE BATTERY**
CHANGE BATTERY I=18.0A
Courant de compensation fourni par le chargeur. Compensation current supplied by the charger. Kompensationsstrom durch Ladegerät. Corriente de compensación roporcionada por el cargador.

**DIAG SHOWROOM**
DIAG U=13.5V I=60.0A
Courant délivré au véhicule. Current sent to the car. Stromversorgung-Fahrzeug. corriente liberada en el vehículo.

DIAG U=14.8V I=60.0A
Tension réglable de 12 à 15V. Adjustable output voltage from 12 to 15V. Einstellbare von 12 bis 15V. Tensión ajustable de 12 a 15V.

DIAGNOSTIC CONSUMPTION>75A
(+Buzzer) Excès de consommation + de 75A. Arrêter le diagnostic ou réduire les consommateurs. (+Buzzer) Excessive consumption (over 70A). Stop diagnostic system or reduce consumption. (+Warnsignal). Verbrauch + 70A Diagnosemodus stoppen oder Stromverbrauch reduzieren (+ buzzer). Exceso de consumo supero a los 70A. Parar el diagnostico o reducir los consumidores

## GYSFLASH 70.24 HF




**70A**
**Ideal During Diagnostics**
**Ideal während Fahrzeug-diagnose**

Veille : 5A
Ouverture Vitre : 10A
Essui-glace : 11A
Lave glace : 8A

Phares : 19A
Dégivrage lunette arrière : 15A
Moto ventilateur : 36A

Stand-by : 5A
Window opening : 10A
Windscreen wipers : 11A
Screen wash : 8A

Full beam : 19A
Rear window de-mister : 15A
Radiator cooling fan : 36A

Ruhezustand : 5A
Fensterheber : 10A
Scheibenwischer : 11A
Scheibenwaschanlage : 8A

Scheinwerfer : 19A
Beheizbare Heckschreibe : 15A
Motorlüftung : 36A

| | | | | | | CHARGE | | | | BSU | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 50 / 60 Hz | | | Start mini | Boost | Equalize/Absorption Gel/AGM | Equalize/Absorption Liquid | Floating | Diag | Diag + | Show room | 40°C/230 V | Fuse | | | |
| **GYSFLASH 75.12 HF** | 029262 | 85 > 265 V | **12V** | 1 150 W | 1V | 1 - 75 A | 13,9V | 14,6V | 13,6V | 13,5 V (Reg. 12V ... 15V) | | | 12V : 55 A @ 100 % | 80 A | 48 x 32,5 x 16 cm | 7,8 kg |
| **GYSFLASH 70.24 HF** | 029255 | 85 > 265 V | **6V** | 575 W | 1V | 1 ... 70 A | 7V | 7,3V | 6,8V | — | — | — | — | 80 A | 48 x 32,5 x 16 cm | 7,8 kg |
| | | | **12V** | 1 150 W | 1V | 1 ... 70 A | 13,9V | 14,6V | 13,6V | 13,5V | 12>15V | — | 12V : 45 A @ 100 % | | | |
| | | | **24V** | 1 150 W | 1V | 1 ... 35 A | 27,8V | 29,2V | 27,2V | 27V | | — | 24V : 20 A @ 100 % | | | |



# CHARGERS & BSU
## (BATTERY SUPORT UNITS)

GO > 1V

**75 A** 12 V
**GYSFLASH 75.12 HF**
Ref. 029262
FV PFC
I REGULATED IUoU FAST CHARGE

**70 A** 6/12/24V
**GYSFLASH 70.24 HF**
Ref. 029255
FV PFC
I REGULATED IUoU FAST CHARGE + IUIo
Automotive + Traction

| | | Recommendation | | | | | | | | | SOS RECOVERY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **GYSFLASH 75.12 HF** | 12V | — | | | | | | 10 > **850 Ah** | | | — |
| **GYSFLASH 70.24 HF** | 6V 12V 24V | **12V** : 45 > **225 Ah** (8 h) - 45 > **450 Ah** (14 h)<br>**24V** : 45 > **125 Ah** (8 h) - 45 > **225 Ah** (14 h) | | | | | | **6/12V** : 10 > **850 Ah**<br>**24V** : 10 > **425 Ah** | | | • |





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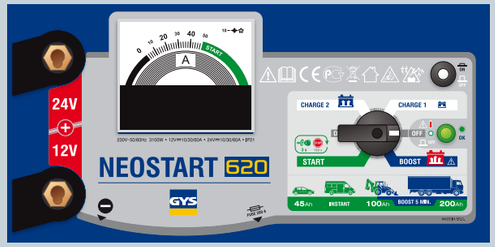
# TRADITIONAL STARTERS & CHARGERS

W p. 35




**430 A** 12/24V
**PROSTART 430**
Ref. 025219 Ref. 025226

**610 A** 12/24V
**PROSTART 610**
Ref. 025257 Ref. 025264

**420 A** 12/24V
**NEOSTART 420**
Ref. 025295 Ref. 025479

**620 A** 12/24V
**NEOSTART 620**
Ref. 025288 Ref. 025486

Fuses 200 A x 2
Ref. 054547

Fuses 200 A x 2
Ref. 054547

| | | | 50/60 Hz | I1 | | CHARGE Reg | Efficace / RMS | Moyen / Average (EN 60335) | Automatic | pos. Manual | min > max | START 1 V/C | 0 V/C | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PROSTART 430** | 025219 | 025226 | 230 V | 16 A | **12/24 V** | 3 | 52 A | 35 A | — | • | 20 > 700 Ah | 250 A | 430 A | — | 31 x 36,5 x 65 cm | 23 kg |
| **PROSTART 610** | 025257 | 025264 | 230 V | 16 A | **12/24 V** | 3 | 72 A | 45 A | — | • | 20 > 1000 Ah | 400 A | 610 A | — | 31 x 36,5 x 65 cm | 26,5 kg |
| **NEOSTART 420** | 025295 | 025479 | 230 V | 16 A | **12/24 V** | 3 | 70 A | 45 A | — | • | 20 > 1000 Ah | 300 A | 420 A | — | 47 x 32 x 27 cm | 20,5 kg |
| **NEOSTART 620** | 025288 | 025486 | 230 V | 16 A | **12/24 V** | 3 | 90 A | 60 A | — | • | 20 > 1350 Ah | 360 A | 620 A | — | 47 x 32 x 27 cm | 24 kg |

| Recommendation | | 50 Ah > > > > 100 Ah > > > > 150 Ah > > > > 200 Ah |
|---|---|---|
| **PROSTART 430** | 12V 24V | |
| **PROSTART 610** | 12V 24V | |
| **NEOSTART 420** | 12V 24V | |
| **NEOSTART 620** | 12V 24V | |

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TRADITIONAL STARTERS

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# AUTOMATIC STARTERS & CHARGERS

W2 p. 35 & CHARGE → ELECTRONIC CONTROL / MANUAL

Protection for on-board electronics

OVER PROTECTION VOLTAGE
AUTOMATIC CONTROL

**235 A** 12V
**GYSTART 235**
Ref. **025318**

**600 A** 12V
**GYSTART 612 E**
Ref. **025332**
5 m

**700 A** 12/24V
**GYSTART 724 E**
Ref. **025356**
5 m

**900 A** 12/24V
**GYSTART 924.230**
Ref. **025363**
5 m

**1 200 A** 12/24V
**GYSTART 1224 T**
Ref. **025394**
TRI
5 m

Fuses 200 A x 2
Ref. 054547

| | | 50/60 Hz | I1 | | CHARGE Reg | Efficace / RMS | Moyen / Average (EN 60335) | Automatic | pos. Manual | min > max | START 1 V/C | START 0 V/C | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GYSTART 235** | 025318 | 230V | 16 A | **12V** | 2 | 25 A | 17 A | • | • | 20 > 400 Ah | 140 A | 235 A | — | 24 x 18 x 35 cm | 10,1 kg |
| **GYSTART 612 E** | 025332 | 230V | 16 A | **12V** | ELECTRONIC 10 45 | 70 A | 45 A | • | • | 20 > 1000 Ah | 350 A | 600 A | • | 31 x 36,5 65 cm | 25,5 kg |
| **GYSTART 724 E** | 025356 | 230V | 16 A | **12/24V** | ELECTRONIC 10 45 | 70 A | 45 A | • | • | 20 > 1000 Ah | 400 A | 700 A | • | 31 x 36,5 x 65 cm | 28,5 kg |
| **GYSTART 924.230** | 025363 | 230V | 16 A - 25 A | **12/24V** | ELECTRONIC 10 50 | 75 A | 50 A | • | • | 30 > 1100 Ah | 650 A | 900 A | • | 36 x 28 x 78 cm | 34 kg |
| **GYSTART 1224 T** | 025394 | 400 V (TRI) | 16 A | **12/24V** | 3 | 80 A | 60 A | • | • | 65 > 1350 Ah | 780 A | 1200 A | • | 42,5 x 34,5 x 71 cm | 54,5 kg |

| Recommendation | | 50 Ah > > > > 100 Ah > > > > 150 Ah > > > > 200 Ah |
|---|---|---|
| **GYSTART 235** | 12V | |
| **GYSTART 612 E** | 12V | |
| **GYSTART 724 E** | 12V 24V | |
| **GYSTART 924.230** | 12V 24V | |
| **GYSTART 1224 T** | 12V 24V | |

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# TESTERS

## TRADITIONAL

## ELECTRONIC

12V | 6V - 12V

| | | | | TEST: BATTERY A | TEST: BATTERY V | TEST: CHARGING & STARTING SYSTEM VEHICLE | PRINT PAPER | DIGITAL | RESULT | | TEMPERATURE COMPENSATION | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TBP 100** *traditional* | 055131 | 6-12 V | **20>100 Ah** | • | • | **12V** | — | — | 5/10s | 15 min | — | 16x1,8x30 | 1,5 |
| **TBP 500** *traditional* | 055148 | 12 V | **10>160 Ah** | • | • | **12V** | — | — | 15s | 15 min | — | 27x26x13 | 8 |
| **BT 111 DHC** *electronic* | 055155 | 12 V | **20>150 Ah** | • | • min 7 V | — | — | • | 1s | instant | — | 7x1,5x12 | 0,25 |
| **BT 222 DHC** *electronic* | 055216 | 12 V | **20>150 Ah** | • | • min 7 V | **12V** | — | — | 1s | instant | — | 7x1,5x12 | 0,25 |
| **BT 280 DHC** *electronic* | 055261 | 12 V | **4>150 Ah** | • | • min 4,5 V | **12V** | — | • rétro-éclairé /back-lit | 1s | instant | — | 12x7,9x22,7 | 0,25 |
| **RT 002 DHC** *electronic* | 055230 | 6-12 V | **7>230 Ah** | • | • min 1,5 V | **12V 24V** | — | • rétro-éclairé /back-lit | 1s | instant | • | 11,5x5x19 | 0,8 |
| **BT 501 DHC** *electronic* | 055209 | 6-12 V | **7>230 Ah** | • | • min 1,5 V | **12V 24V** | • | • | 1s | instant | • | 11x4x19,5 | 0,4 |
| **RT 777 DHC** *electronic* | 055247 | 6-12 V | **7>230 Ah** | • | • min 1,5 V | **12V 24V** | • | • rétro-éclairé /back-lit | 1s | instant | • | 13x6,4x25,1 | 0,7 |

| Recommendation | Test: batteries/Battery/Ladegeräte | Test: Circuit alternateur/Alternator Circuit/Lichtmaschineschaltkreis | PRINT PAPER | |
|---|---|---|---|---|
| **TBP 100** *traditional* | 6V 12V | 12V | — | 20 ▸ **100 Ah** |
| **TBP 500** *traditional* | 12V | 12V | — | 10 ▸ **160 Ah** |
| **BT 111 DHC** *electronic* | 12V | — | — | 20 ▸ **150 Ah** |
| **BT 222 DHC** *electronic* | 12V | 12V | — | 20 ▸ **150 Ah** |
| **BT 280 DHC** *electronic* | 12V | 12V | — | 4 ▸ **150 Ah** |
| **RT 002 DHC** *electronic* | 6V 12V | 12V 24V | — | 7 ▸ **230 Ah** |
| **BT 501 DHC** *electronic* | 6V 12V | 12V 24V | • | 7 ▸ **230 Ah** |
| **RT 777 DHC** *electronic* | 6V 12V | 12V 24V | • | 7 ▸ **230 Ah** |

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MADE IN P.R.C.

MADE IN TAIWAN

# BOOSTERS + POWER SUPPLY

WU Floating Process Charge 100 %
p. 35

## 1 000 A | 12V
### GYSPACK ONE
Ref. 025073
1V/C 300 A

12 Ah INSIDE

NEW 12/2013

## 1 250 A | 12V
### GYSPACK AUTO/ GYSPACK 400
1V/C 480 A

Ref. 026230
Ref. 025424

Ref. 025455

18 Ah INSIDE

Power Supply 18 Ah · 12V DC

NEW 12/2013

## 1 250 A | 12V
### GYSPACK AIR
1V/C 480 A

Ref. 026322
Ref. 025431

Isolated clamps
500 A
1,1 m
ø 25 mm²

Power Supply 18 Ah · 12V DC

18 Ah INSIDE

+ Compressor
Air Kit included
4 bars

230V Après chaque utilisation
After each use
Nach jeder Anwendung

GYSPACK AUTO
GYSPACK AIR
GYSPACK 400
GYSPACK PRO
AUTOMATIC CHARGER Power in 230 V / 12 V
included
Ref. 054677
Ref. 054660

| | | 12V Inside | START 1V/C | Cranking CC | Peak Battery | ON OFF | ARS | Power Supply | Charge 230 V | TEST OK | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GYSPACK ONE | 025073 | 12 Ah | 300 A | 600 A | 1 000 A | — | — | — | EXTERNAL 12 V DC | • | 24 x 17 x 285 cm | 5,8 kg |
| GYSPACK AUTO/400 | 026230 / 025424 | 18 Ah | 480 A | 900 A | 1250 A | — | — | 12 V DC | EXTERNAL 12 V DC | • | 33 x 14 x 35 cm | 7 kg |
| GYSPACK AIR | 026322 / 025431 | 18 Ah | 480 A | 900 A | 1250 A | • | 4 bars | 12 V DC | EXTERNAL 12 V DC | • | 35,5 x 19,5 x 43 cm | 10 kg |

## 1 750 A | 12V
### GYSPACK PRO
1V/C 600 A

Ref. 026155

WU
p. 35

Power Supply 22 Ah · 12V DC

AUTOMATIC CHARGER Power in 12V

included

Isolated clamps
500 A
1,1 m
ø 25 mm²

22 Ah INSIDE

## 2 500 A | 12V
### GYSPACK 750
1V/C 750 A

Ref. 026179

I REGULATED IUoU FAST CHARGE
FV FLEXIBLE VOLTAGE 85 V – 265 V
p. 35

Power Supply 26 Ah · 12V DC

AUTOMATIC CHARGER Power in 12V

included

NEW 12/2013

Isolated clamps
600 A
1,3 m
ø 25 mm²

26 Ah INSIDE

## 3 200 A | 12V — 1600 A | 24V
### GYSPACK TRUCK
1V/C 750 A
1V/C 650 A

Ref. 025448

I REGULATED IUoU FAST CHARGE
FV FLEXIBLE VOLTAGE 85 V – 265 V
p. 35

Power Supply 44 Ah · 12V DC

AUTOMATIC CHARGER Power in 12V

included

22 Ah + 22 Ah INSIDE

NEW 12/2013

Isolated clamps
600 A
1,8 m
ø 25 mm²

230V Après chaque utilisation
After each use
Nach jeder Anwendung

GYSPACK 750
GYSPACK TRUCK
AUTOMATIC CHARGER Power in 230 V / 12 V
included Ref. 054684

Fuses 200 A x2
GYSPACK 750
Ref. 054547

Fuse 300 A x2
GYSPACK TRUCK
Ref. 054561

| | | 12V Inside | START | 1V/C | Cranking CC | Peak Battery | ON OFF | Fuse | Power Supply | Charge 230 V | TEST OK | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GYSPACK PRO | 026155 | 22 Ah | 12V | 600 A | 1100 A | 1750 A | • | — | 12 V DC | EXTERNAL 12 V DC | • | 34 x 20 x 43 cm | 8,9 kg |
| GYSPACK 750 | 026179 | 26 Ah | 12V | 750 A | 1450 A | 2500 A | • | 2 x 200 A | 12 V DC | EXTERNAL 12 V/2 A DC | • | 36 x 20 x 43 cm | 14 kg |
| GYSPACK TRUCK | 025448 | 2 x 22 Ah | 12V | 750 A | 1450 A | 3200 A | • | 1 x 300 A | 12 V DC | EXTERNAL 12 V/2 A DC | — | 38,9 x 22,5 x 50 cm | 16 kg |
| | | | 24V | 650 A | 1300 A | 1600 A | | | | | | | |

# BOOSTERS
## CAR + TRUCK

CHARGER INSIDE
HAWKER BATTERIES
WUoU p. 35

**1 800 A** | 12V | **1V/C** 640 A
**GYSPACK 650**
Ref. **026254**
RENAULT 1 096 700

**3100 A** | 12V | **1V/C** 830 A
**GYSPACK 810**
Ref. **026278**
RENAULT 1 096 701

**3600 A** | 12V | **1V/C** 900 A
**1 800 A** | 24V ★ | **1V/C** 700 A
**STARTPACK 12.24**
Ref. **026285**

**6200 A** | 12V | **1V/C** 1300 A
**3100 A** | 24V ★★★ | **1V/C** 1200 A
**GYSPACK PRO 12.24**
Ref. **026452**
PRO ★★★

16 Ah INSIDE

30 Ah INSIDE

16 Ah + 16 Ah INSIDE

45 x 17 x 58 cm - 31 kg
57 x 34 x 94 cm - 45,5 kg
30 Ah + 30 Ah INSIDE

Fuses 200 A x 2
Ref. 054547

230V
Après chaque utilisation
After each use
Nach jeder Anwendung

| | | 12V Inside | START 12V | 1V/C | Cranking CC | Peak Battery | TEST | OK | CHARGER INSIDE 230V | Protection | | Power out | Memory | Fuse | Fuse | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GYSPACK 650** | 026254 | **16 Ah** | 12V | 640 A | 1200 A | 1800 A | • | | 3 A | • | • | 12 V DC | | 15 A | 200 A | 2 x 1,4 m ø 25 mm² | 23 x 35 x 35 cm | 13 kg |
| **GYSPACK 810** | 026278 | **30 Ah** | 12V | 830 A | 1700 A | 3100 A | • | | 3 A | • | • | 12 V DC | | 15 A | 2 x 200 A | 2 x 1,8 m ø 35 mm² | 18 x 38 x 31 cm | 16,6 kg |
| **STARTPACK 12.24** | 026285 | **2x16 Ah** | 12V | 900 A | 1700 A | 3600 A | • | | 7 A | • | • | — | | 20 A | 2 x 200 A | 2 x 1,8 m ø 35 mm² | 21 x 35 x 56 cm | 23,5 kg |
| | | | 24V | 700 A | 1350 A | 1800 A | | | | | | | | | | | | |
| **GYSPACK PRO 12.24** | 026452 | **2x30 Ah** | 12V | 1300 A | 2400 A | 6200 A | • | | 7 A | • | • | — | | 20 A | 2 x 200 A | 2 x 2 m ø 50 mm² | 12 x 64 x 97 cm | 45,5 kg |
| | | | 24V | 1200 A | 2250 A | 3100 A | | | | | | | | | | | | |

**12V**

| Recommendation | |
|---|---|
| **GYSPACK 650** | |
| **GYSPACK 810** | |

**24V**

| Recommendation | |
|---|---|
| **GYSPACK TRUCK** | |
| **STARTPACK 12.24** | ★ |
| **GYSPACK PRO 12.24** | **PRO ★★★** |

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CE NORM. ★★★★ 60335-2-29
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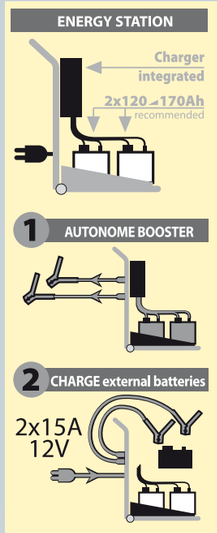
# BOOSTER
## TRUCK & BUS

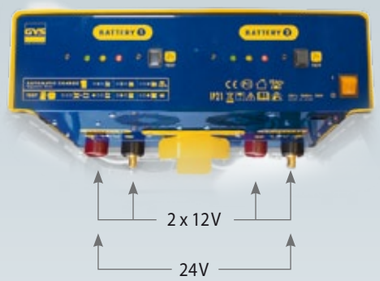
# CHARGER
## AUTOMATIC X2

CHARGER INSIDE

WUoU p. 35

## 12/24V
### ENERGY STATION
Ref. **026148**





Batteries non fournies
Batteries not provided
Ohne Batterie
45 53

OPTION
Kit roues mousse polyuréthane
/Wheel kit/Räder-Kit
Ref. 053212

230V
Après chaque utilisation
After each use
Nach jeder Anwendung

| Recommendation | | | | | | | | | | | Charge External batteries |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ENERGY STATION** | 12V 24V | | | | | | | | | | OK |

| | | START | CHARGE 12V | CHARGE 24V | CHARGE min > max | CHARGE Moyen / Average (EN 60335) | CHARGE Efficace / RMS | Fuse | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ENERGY STATION** | 026148 | selon batteries /according to battery | • | • | 35 > 225 Ah | 2 x 15 A | 2 x 22 A | 2 x 30 A | 70 x 62 x 92 cm | 36 kg + batteries | 2 x 2,5 m - ø 35 mm² |

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# MEMORY AUTO SAVE

SAUVEGARDE MÉMOIRE OBD / Memory auto save / Speicherschutz / Salvaguardia memorias / Salvaguardas de memória / Αυτόματη αποθήκευση ρυθμίσεων / Сохранение настроек/ 记忆储存器

## GYSPACK OBD
Ref. **054998** Ref. **055001**

OBD

7 Ah INSIDE

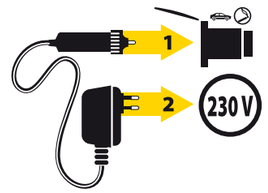
230V
Après chaque utilisation
After each use
Nach jeder Anwendung

| INSIDE | MEMORY SAVER OBD | MEMORY SAVER | | |
|---|---|---|---|---|
| 12 V 7 Ah | < 4 A | < 4 A | 25 x 18 x 25 cm | 3 kg |

SAUVEGARDE MÉMOIRE
/ Memory auto save
/ Speicherschutz

**230V/12V**

Ref. 055018



CE
CE NORM. 60335-2-29
MADE IN P.R.C.

# JUMPER CABLES
## CONSUMER

| Ref. | | × m | Ø CCA |
|---|---|---|---|
| 056367 | **200 A** (1,2 l) | 2,5 m | 7 mm² |

### ISOLATED CLAMPS

| Ref. | | × m | Ø CCA |
|---|---|---|---|
| 056398 | **200 A** (1,5 l) | 2,8 m | 10 mm² |
| 056411 | **320 A** (2,5 l) | 3 m | 16 mm² |
| 056428 | **500 A** (3/5,5 l) | 3,5 m | 25 mm² |
| 056442 | **700 A** (4/7 l) | 4,5 m | 35 mm² |

### ISOLATED CLAMPS & LED

| Ref. | | × m | ≈ Ø CU |
|---|---|---|---|
| 056374 | **300 A** (2,5 l) | 3 m | 16 mm² |
| 056381 | **500 A** (4,5/5,5 l) | 3,5 m | 25 mm² |

MADE IN P.R.C.



# JUMPER CABLES
## PROFESSIONAL

### PRO

#### ISOLATED CLAMPS

**PINCES ISOLÉES** - INSULATED CLAMPS • ISOLIERTE KLEMMEN • Pinzas aisladas • Garras isoladas • Geïsoleerde klemmen • Μονωμένοι ακροδέκτες • Изолированные зажимы • 绝缘充电夹

MADE IN P.R.C

| Ref. | | × m | ≈ Ø CU |
|---|---|---|---|
| 056312 | **200 A** (1,5 l) | 2,8 m | 10 mm² |
| 056329 | **320 A** (2,5 l) | 3 m | 16 mm² |
| 056336 | **500 A** (3/5,5 l) | 3,5 m | 25 mm² |
| 056343 | **700 A** (4/7 l,PRO) | 4,5 m | 35 mm² |

#### BRASS CLAMPS

**PINCES LAITON, NON ISOLÉES** - Brass clamps, NOT INSULATED • Messingklemmen, nicht isoliert • pinzas de latón, no aisladas • Koperen klemmen, niet geïsoleerd • Garras bronze, latão isoladas • Ακροδέκτες χαλκού χωρίς μόνωση • ЛАТУННЫЕ ЗАЖИМЫ, НЕИЗОЛИРОВАННЫЕ • 黄铜夹,无绝缘

MADE IN P.R.C

| Ref. | | × m | ≈ Ø CU |
|---|---|---|---|
| 056206 | **320 A** | 3 m | 16 mm² |
| 564015 | **500 A** | 3 m | 25 mm² |
| 056404 | **700 A** | 4,5 m | 35 mm² |
| 056602 | **1000 A** | 5,1 m | 50 mm² |

### SUPER PRO

MADE IN FRANCE

**PINCES ISOLÉES** - INSULATED CLAMPS • ISOLIERTE KLEMMEN • Pinzas aisladas • Garras isoladas • Geïsoleerde klemmen • Μονωμένοι ακροδέκτες • Изолированные зажимы • 绝缘充电夹ioiopi

| Ref. | | × m | Ø CU |
|---|---|---|---|
| 056541 | **700 A** | 4,5 m | 35 mm² |

MADE IN FRANCE

| Ref. | | × m | Ø CU |
|---|---|---|---|
| 056619 | **1000 A** | 5 m | 50 mm² |

# POWER INVERTER 12V > 230V

CONVERGYS

## CONVERGYS 150

Ref. 027015 — Ref. 027008

## CONVERGYS 300

Ref. 027053 — Ref. 027046

PURE SINE WAVE

## PSW 8300

Ref. 027114 — Ref. 027107

## PSW 8600

Ref. 027169 — Ref. 027152

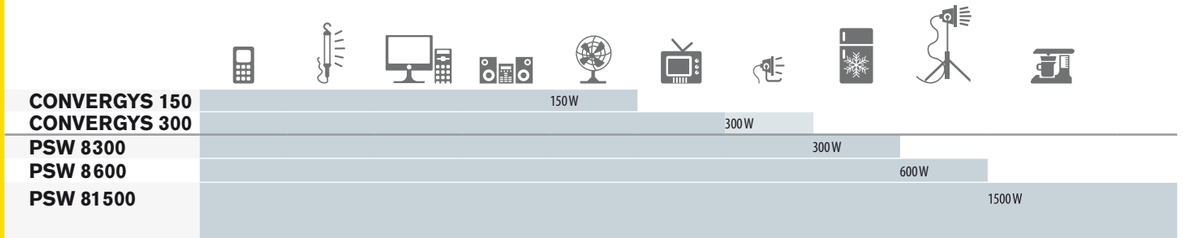
### Conversion Chart / Table:

| horse power to watts | | | watts to horse power | | |
|---|---|---|---|---|---|
| hp | = | W | W | = | hp |
| 0,1 | = | 73,5 | 100 | = | 0,1360 |
| 0,2 | = | 147,1 | 200 | = | 0,2719 |
| 0,3 | = | 220,6 | 300 | = | 0,4079 |
| 0,4 | = | 294,2 | 400 | = | 0,5438 |
| 0,5 | = | 367,7 | 500 | = | 0,6798 |
| 1 | = | 735,5 | 1000 | = | 1,3596 |
| 2 | = | 1471,0 | 2000 | = | 2,7192 |
| 3 | = | 2206,5 | 3000 | = | 4,0789 |
| 4 | = | 2942,0 | 4000 | = | 5,4385 |

## PSW 81500

Ref. 027220 — Ref. 027190

| | | | Power | Peak power | Pure Sin Wave | Optimum Efficiency | Input DC | Output AC | Output USB DC | max 150W | | Universal | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CONVERGYS 150** | 027015 | 027008 | **150W** | 300W | — | 90,5 % | 12V | 230V | 5V · 500 mA | • | — | • | — | 6 x 10 x 5 cm | 0,34 kg |
| **CONVERGYS 300** | 027053 | 027046 | **300W** | 600W | — | 85 % | 12V | 230V | 5V · 500 mA | • | • | • | — | 10 x 15 x 6 cm | 0,85 kg |
| **PSW 8300** | 027114 | 027107 | **300W** | 600W | • | 85 % | 12V | 230V | 5V · 500 mA | — | • | • | • | 18 x 18 x 7 cm | 1,2 kg |
| **PSW 8600** | 027169 | 027152 | **600W** | 1200W | • | 85 % | 12V | 230V | 5V · 500 mA | — | • | • | • | 18 x 20 x 7 cm | 2,3 kg |
| **PSW 81500** | 027220 | 027190 | **1500W** | 3000W | • | 85 % | 12V | 230V | 5V · 500 mA | — | • | • | • | 18 x 31 x 7 cm | 4 kg |




60335-2-29

MADE IN P.R.C.



## DHC 54E STATION MULTICHARGE POUR BATTERIES - Multi charge station for batteries - multi-ladestation für starter-batterien

Charge automatique • Automatic charge • Automatischer Ladevorgang

4 x 5A 12V (liquid/gel)
5 étapes • 5 steps • 5 Schritte
Pulse/Boost/Egalisation/100%/Floating
Maintenance/Zusatzhülsenkit

10 ◢ 100 Ah

**Multicharge Station DHC 54E**
Ref. **025097**

## KIT SOLAIRE DE MAINTIEN DE CHARGE - Solar powered charger - Solarpanel zur Ladeerhaltung- Kit solar de mantenimiento de carga - Солнечная панель для поддержания заряда в наборе с аксессуарами

Ref. **029163**

NEW 11/2013

## PINCES - Clamps • Klemmen • Pinzas • Garras • Ακροδέκτες • Зажимы • 充电夹

| 40 A | 200 A | 300 A | 600 A | 850 A |
|---|---|---|---|---|
| | | | | |
| ● ● (x2) Ref.053106 | ● Ref.053502 ● Ref.053403 | ● Ref.053700 ● Ref.053601 | ● Ref.053779 ● Ref.053786 | ● Ref.053816 ● Ref.053793 |

## COSSES BATTERIE - Battery Terminal - Polklemmen - Terminales batería - Accupool - Terminais de bateria - Πόλος μπαταρίας Контакты аккумуляторной - батареи - 电池端子

| | ø 10 mm / 35 mm² | | ø 13 mm / 50 mm² | | ø 16 mm / 70 mm² |
|---|---|---|---|---|---|
| x1 ⊕ & ⊖ 054400 | | | | | |
| ⊕ | x25 Ref.054431 | x25 Ref.054332 | x25 Ref.054417 | x25 Ref.054356 | x25 Ref.054370 |
| ⊖ | x25 Ref.054448 | x25 Ref.054349 | x25 Ref.054424 | x25 Ref.054363 | x25 Ref.054387 |

**Quick Connector**
ø 10 mm / 50 mm²
I max = 1000 A
Ref. 054455

## FUSIBLES - Fuses - Sicherungen - Fusibles - Zekeringen - Fusíveis - Ασφάλειες - Плавкие предохранители - 保险丝

x10

**10 A** : 054530
**15 A** : 054493
**20 A** : 054509
**25 A** : 054516
**30 A** : 054523
**40 A** : 054554

for Gystart & Prostart (before July 2007)
**100A** : 054486

x10

for Gystart & Prostart (after July 2007)
**200A** : 054547
**300A** : 054561

x2

## AUTRES - Others - Andere - Otros - Outros - Άλλα - Разное - Другое par Разное - 其他

Protection anti-arc 12V • Anti-arc protection 12V • Lichtbogenschutz 12 V
• Protección anti-arco 12V • Piekspanningsbeveiliging 12V
• Protecção anti-faísca 12V
• Αντι-σπινθηρική προστασία 12V
• Защита против дуги 12В
• 12V 抗电弧保护

Ref. 041318

Pèse acide antigel • Acidimeter (PH Meter)
• Säure/Frostschutzmittel-Tester • Acido densímetro anticongelante
• Zuurweger • Medidor de PH (ácido)
• Μετρητής οξύτητας (PH) • Ацидиметр (pH-метр) • 防冻酸度计

Ref. 054103

60335-2-29

MADE IN P.R.C.

# CHOOSE YOUR BOOSTER

## CHOISISSEZ VOTRE BOOSTER

| | 12 V | | | | | | | 12 - 24 V | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | GYSPACK ONE | GYSPACK AUTO | GYSPACK AIR | GYSPACK PRO | GYSPACK 650 | GYSPACK 750 | GYSPACK 810 | GYSPACK TRUCK | STARTPACK 12.24 | GYSPACK PRO 12.24 | ENERGY STATION |
| | 025073 | 026230 025455 | 026322 | 026155 | 026254 | 026179 | 026278 | 025448 | 026285 | 026452 | 026148 |
| | 12 V | 12 V | 12 V | 12 V | 12 V | 12 V | 12 V | 12 V<br>24V | 12 V<br>24V | 12 V<br>24V | 12 V<br>24V |
| START 1V/C | 300 A | 480 A | 480 A | 600 A | 640 A | 750 A | 830 A | 750 (12 V)<br>650 (24 V) | 900 A (12 V)<br>700 A (24 V) | 1300 A (12 V)<br>1200 A (24 V) | ? |
| START CC | 600 A | 900 A | 900 A | 1100 A | 1200 A | 1450A | 1700 A | 1450 A (12 V)<br>1300 A (24 V) | 1700 A (12 V)<br>1350 A (24 V) | 2400 A (12 V)<br>2250 A (24 V) | |
| START PEAK | 1000 A | 1250 A | 1250 A | 1750 A | 1800 A | 2500 A | 3100 A | 3200 A (12 V)<br>1600 A (24 V) | 3600 A (12 V)<br>1800 A (24 V) | 6200 A (12 V)<br>3100 A (24 V) | |
| 12V | 12 Ah | 18 Ah | 18 Ah | 22 Ah | 16 Ah | 26 Ah | 30 Ah | 2 x 22 Ah | 2 x 16 Ah | 2 x 30 Ah | — |
| | — | — | • | • | • | • | • | • | • | • | — |
| | — | • | • | • | • | • | • | — | — | — | • |
| | outside 0,5 A | outside 0,5 A | outside 0,5 A | outside 0,5 A | **inside 2,5 A** | outside 2 A | **inside 2,5 A** | outside 2 A | **inside 7 A** | **inside 7 A** | **inside 2 x 15 A** |
| | | 12 V DC | 12 V DC | 12 V DC | 12 V DC | 12 V DC | 12 V DC | 12 V DC | — | — | — |
| | — | — | • | — | — | — | — | — | — | — | — |
| | — | — | • | • | — | • | — | • | — | — | — |
| | 0,5 m ø16 mm² | 0,5 m ø16 mm² | 1,1 m ø25 mm² | 1,1 m ø25 mm² | 1,4 m ø25 mm² | 1,3 m ø25 mm² | 1,8 m ø35 mm² | 1,8 m ø25 mm² | 1,8 m ø35 mm² | 1,8 m ø35 mm² | 2,5 m ø50 mm² |
| | 22 x 24 x 15 | 33 x 14 x 35 | 34 x 20 x 43 | 34 x 20 x 43 | 33 x 20 x 33 | 33 x 16 x 38 | 33 x 20 x 33 | 35 x 19 x 44 | 17 x 33 x 48 | 57 x 34 x 94 | 70 x 62 x 92 |
| | 6 kg | 7 kg | 8,9 kg | 7,9 kg | 11 kg | 13 kg | 15 kg | 18 kg | 23 kg | 31 / 40 kg | 36 kg + |
| | | | | | | | | ★ MINI PRO | ★★★ PRO | ★★★ ★★ UNIVERSAL PRO | |

ATTENTION HORS UTILISATION
Laisser le chargeur branché en permanence.

CAUTION ON STAND BY
Keep your GYSPACK connected to the mains supply.

ACHTUNG AUSSER BETRIEB
Lader dauernd angeschlossen lassen.

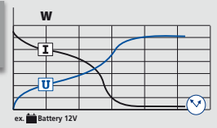
ATTENTION CUANDO ESTA APAGADO
Dejar el cargardor conectado permanentemente.

OPGELET BUITEN GEBRUIK
Laat de lader onafgebroken aangesloten.

## BATTERIES DE DÉMARRAGE - Automotive batteries - Starterbatterien - Baterías de arranque - Automotive accu's - Baterias de Automóvel - Μπαταρίες οχημάτων - Пусковые батареи - 汽车启动电池

### TRADITIONAL

**W**




Recommendation

| LIQUID | LIQUID Calcium | LIQUID Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|---|
| ★ | ☆ | ☆ | ☆ | ☆ | ☆ |

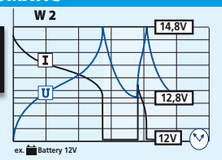
UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH

CT
Professional p.9

ENERGY
Consumer /Tourisme
p.4

### AUTOMATIC

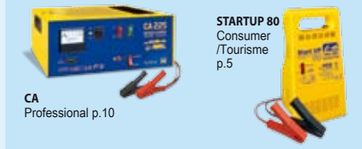
**W2**




Recommendation

| LIQUID | LIQUID Calcium | LIQUID Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|---|
| ★ | ★ | ☆ | ☆ | ☆ | ★ |

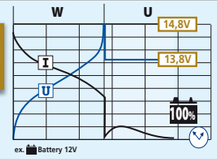
UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH




CA
Professional p.10

STARTUP 80
Consumer /Tourisme
p.5

**WU**



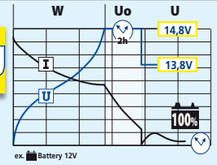

Recommendation

| LIQUID | LIQUID Calcium | LIQUID Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|---|
| ★★ | ★ | ★★ | ★★ | ★★ | ★★ |

UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH

TCB
Consumer /Tourisme
p.4-5

**WUoU**




Recommendation

| LIQUID | LIQUID Calcium Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|
| ★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ |

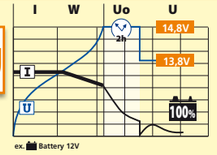
UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH

WATTMATIC
Professional p.11

BOOSTER
Professional p.24-26

### AUTOMATIC FAST CHARGE

**IWUoU**



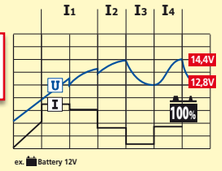

Recommendation

| LIQUID | LIQUID Calcium Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|
| ★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ |

UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH

BATIUM
Professional p.12-13

**I▸I▸I**



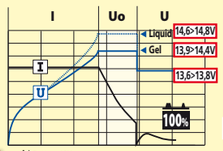

Recommendation

| LIQUID | LIQUID Calcium Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|
| ★★ | ★★ | ★★ | ★★ | ★★ |

UNIVERSAL | MAINTENANCE | | HIGH TECH

GYSTECH
Consumer /Tourism
p.6-8

**I REGULATED IUoU FAST CHARGE**




Recommendation

| LIQUID | LIQUID Calcium Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|
| ★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ |

UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH

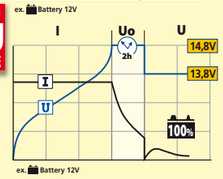
GYSFLASH 4A/7A
Professional p.7

GYSFLASH 75-12/70-24 HF
Professional p.16-17

GYSFLASH 30.12/30.24 HF
Professional p.15-16

BATIUM 25/24
Professional p.12

**IUoU FAST CHARGE**




Recommendation

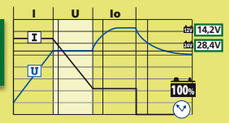
| LIQUID | LIQUID Calcium Silver AGM | START/STOP | GEL Sealed | OPTIMA maXXima |
|---|---|---|---|---|
| ★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ |

UNIVERSAL | MAINTENANCE | EASY USE | HIGH TECH

## BATTERIES DE TRACTION - Traction batteries - Traktionsbatterien - Baterías de tracción - Tractieaccu's - Baterias de Tracção - Μπαταρίες έλξεως - Тяговые батареи - 牵引用铅酸蓄电池

### AUTOMATIC FAST CHARGE

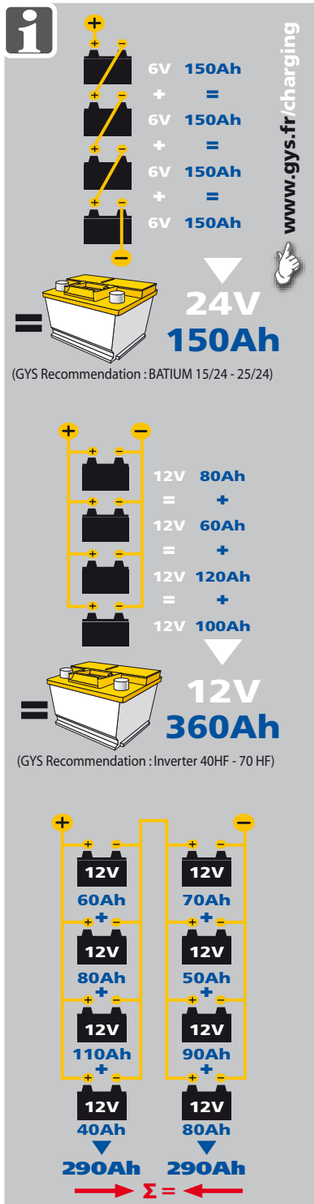
**IUIo**




Recommendation
Traction batteries ★★★
High Technologie ★

GYSFLASH 70-24 HF
Professional p.16-17

BATIUM 25/24
Professional p.12

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| 0,4 | = | 294,2 | 400 | = | 0,5438 |
| 0,5 | = | 367,7 | 500 | = | 0,6798 |
| 1 | = | 735,5 | 1000 | = | 1,3596 |
| 2 | = | 1471,0 | 2000 | = | 2,7192 |
| 3 | = | 2206,5 | 3000 | = | 4,0789 |
| 4 | = | 2942,0 | 4000 | = | 5,4385 |

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E-mail : r.samal@gys.fr

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www.gysasia.com
E-mail : contact@gys-china.com.cn

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www.bzl-china.com
E-mail : mz@bzl-china.com


## International Events

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