

MADE IN FRANCE
MANUFACTURER SINCE 1964

NOUVEAUTÉS • NEW • NEUHEITEN



INVEST IN THE FUTURE



Chargers Catalogue

Catalogue Chargeurs • Batterieservicegeräte-Katalog • Catálogo de Cargadores

2013B

www.gys.fr

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

NEW PRODUCTS IN 2013

GYSFLASH
75/12 HF
p.16-17



NEOSTART
420 & 620
p.19



GYSPACK
750
p.23



**GYSPACK
TRUCK**
p.23



**JUMPER
CABLES**
p.28-29

CORPORATE NEWS IN 2013

France- NEW Building

India - NEW Company

104 pays
104 countries
104 Ländern

Customs authorisation
N° : FR000120 / 0131

GYS U.K.
Warwick



GYS Germany
Aachen



GYS China
Shanghai

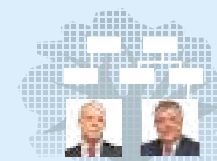


GYS France
Laval



www.gys.fr

GYS
INVEST IN THE FUTURE

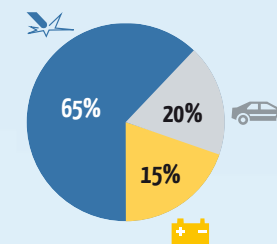


SINCE 1964

Société familiale
Family firm / Familienbetrieb



X 430



CHARGERS

Consumer / Tourism	
Traditional & Automatic	p.4-5
Inverter HF	p.6-8
Professional	
Traditional	p.9
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Smart Automatic	p.12-13
Inverter HF + BSU	p.14-17

STARTERS

Traditional	p.18-19
Automatic	p.20-21

BOOSTERS

Plastic	p.22-23
Professional	p.24-26

JUMPER CABLES

Consumer / Tourism	p.28
Professional	p.29

MEMORY AUTO SAVE

p.27

POWER INVERTER

p.30-31

TESTERS

p.32-33

ACCESSORIES

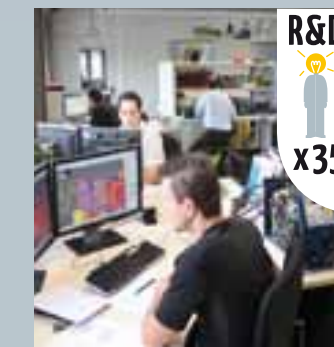
p.34



A

100%

Z



R&D
 x35

CHARGERS
TRADITIONAL

W

p. 35



Ref. 023215 Ref. 025141



Ref. 023222 Ref. 025165



ENERGY/TCB



Fuse X10
10A : Ref.054530
15A : Ref.054493

CHARGERS
AUTOMATIC

WU

p. 35



Ref. 023253 Ref. 025189



Ref. 023260 Ref. 025202



Ref. 023284 Ref. 025240



TCB 60/90/120
PATENTS REGISTERED NUMBERS
001652090-0001
EUROPEAN TRADEMARK & DESIGN

CHARGER
AUTOMATIC
& STARTER

W2

p. 35



Ref. 024922 Ref. 025127



START UP 80
PATENTS REGISTERED NUMBERS
001652090-0002
EUROPEAN TRADEMARK & DESIGN

3 in 1
=
CHARGE
+
TEST
+
START

			 50 / 60 Hz			CHARGE 			START  1V/C	 Fuse			 Recommendation						CHARGER + TESTER	BOOST	 Bzz CONTROL		
					 Reg	Efficace / RMS	Moyen / Average (EN 60335)									Essence • Petrol • Benzin			Diesel				
ENERGY 124	023215	 025141	230V	70W	12V	—	4,5 A	3 A	—	10 A	11 x 9,5 x 21 cm	1,6 kg	ENERGY 124				10 > 45 Ah				—	—	—
ENERGY 126	023222	 025165	230V	90W	12V	—	6 A	4 A	—	10 A	11 x 9,5 x 21 cm	1,8 kg	ENERGY 126				15 > 60 Ah				—	—	—
TCB 60 automatic	023253	 025189	230V	85W	12V	2	6 A	2 - 4 A	—	10 A	16,5 x 11 x 29 cm	2,5 kg	TCB 60 automatic		15 > 60 Ah					OK	—	OK	
TCB 90 automatic	023260	 025202	230V	120W	12V	2	8 A	2 - 5,5 A	—	15 A	16,5 x 11 x 29 cm	2,7 kg	TCB 90 automatic		15 > 90 Ah					OK	—	OK	
TCB 120 automatic	023284	 025240	230V	150W	12V	2	10,5 A	3,5 - 7 A	—	15 A	16,5 x 11 x 29 cm	2,9 kg	TCB 120 automatic			30 > 120 Ah				OK	—	OK	
START UP 80 automatic	024922	 025127	230V	350W	12V	2	13,5-25 A	9 - 17 A	50 A	—	17 x 11,5 x 31 cm	4,2 kg	START UP 80 automatic				45 > 170 Ah				OK	OK	OK

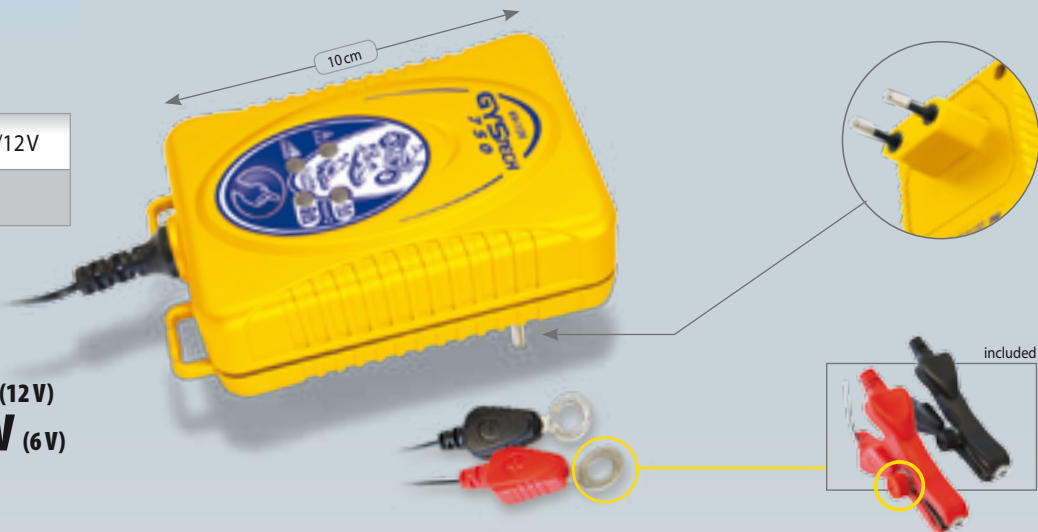
CHARGERS HF · INVERTER



0,75 A 6/12V
GYPECH 750

Ref. 024977

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



3,8 A 12V
GYPECH 3800

Ref. 024939

GO > 7,5V



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

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

				CHARGE						
	50 / 60 Hz				Efficace / RMS	Moyen / Average (EN 60335)	Recover	Fuse		
GYPECH 750	024977	230V	16,5W	6 / 12V	0,75 A	0,75 A	—	—	10 x 6,5 x 3,8 cm	0,2 kg
GYPECH 3800	024939	230V	60W	12V	0,8 - 3,8 A	0,8 - 3,8 A	—	10 A	17,2 x 6,2 x 4,2 cm	0,5 kg
GYPECH 7000	024953	230V	160W	12V	7 A	7 A	•	10 A	20,1 x 9,1 x 5,1 cm	0,9 kg
GYPECH 12/12	024984	230V	200W	24V	3,5 A	3,5 A	•	—	20,5 x 12,5 x 7 cm	0,9 kg
				12V	2 - 12 A	2 - 12 A	•	—		

Recommendation									
		Essence · Petrol · Benzin		Diesel				Supply 5 A 12V DC	IP
GYPECH 750	6V 12V	1,2 > 20 Ah						—	IP 60
GYPECH 3800	12V	Charge 1,2 > 60 Ah (Maintenance 1,2 > 120 Ah)						—	IP 65
GYPECH 7000	12V 24V	12V : Charge 14 > 130 Ah (Maintenance 14 > 230 Ah)						•	IP 65
GYPECH 12/12	12V	24V : Charge 14 > 60 Ah (Maintenance 14 > 120 Ah)						—	IP 20
		12V : Charge 2 > 200 Ah (Maintenance 2 > 250 Ah)							

CHARGERS HF · INVERTER

3,5/7 A 12/24V
GYPECH 7000

Ref. 024953

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

COLD CHARGE
0°C > 0°C



2/12 A 12V
GYPECH 12/12

Ref. 024984

GO > 5V



PRODUCT LINE

CHARGERS HF · INVERTER



5A 12V
INVERTER 5HF

Ref. 029170

IP 67
ALUMINIUM CASE



Résine / Resin / Harz / Resina
VIBRATIONS / VIBRATIONEN / VIBRATIONES PROTECTED



7A 12V
GYSFLASH 7A

Ref. 029187

IP 65

GO > 1V



COLD CHARGE
≤ 0°C > 0°C

S.O.S. RECOVERY
SULPHATED BATTERY

WATERPROOF

Recommendation										IP	SOS RECOVERY
INVERTER 5HF	12V	On board/Embarqué 20 > 100 Ah (Maintenance 20 > 160 Ah)								IP 67	—
	24V	On board/Embarqué 1,2 > 130 Ah (Maintenance 1,2 > 230 Ah)								IP 65	Automatic

		50 / 60 Hz	80W	12V	Start mini	Boost	Equalize/Absorption	Floating		
INVERTER 5HF	029170	230V	80W	12V	—	5A	14,8V (liquid)	13,8V	14 x 10 x 3 cm	0,9 kg
GYSFLASH 7A	029187	170 > 260V	160W	12V	1V	0,8 - 7 A	14,6V (T > 0°) 15V (T < 0°)	13,6V	19 x 10 x 5,2 cm	0,5 kg

CHARGERS TRADITIONAL

W
p. 35



9A 12/24V
CT 160

Ref. 024106

Ref. 025325

12A 12/24V
CT 210

Ref. 024113

Ref. 025349



Fuse X10
15A : Ref.054493 (CT 160)
20A : Ref.054509 (CT 210)

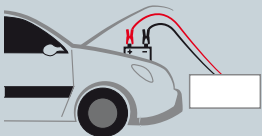


PRODUCT LINE

Recommendation							
CT 160	12V 24V	(12V) 25 > 160 Ah (24V) 15 > 90 Ah					
CT 210	12V 24V	(12V) 35 > 210 Ah (24V) 20 > 100 Ah					

				CHARGE							
				12/24V	Reg	Efficace / RMS	Moyen / Average (EN 60335)	Fuse			
CT 160	024106	025325	230V, 50 / 60 Hz	190W	12V > 2	13,5 A	Reg 1 7 A	15 A	22 x 18 x 12 cm		3,6 kg
CT 210	024113	025349	230V, 50 / 60 Hz	260W	24V > 2	7,5 A	Reg 2 9 A	20 A	26 x 20 x 13 cm		4,8 kg

CHARGERS
AUTOMATIC



Protection for on-board electronics



Protection for on-board electronics

12A	12/24V
CA 170	

Ref. 024397

15A	12/24V
CA 225	

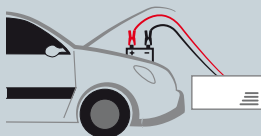
Ref. 024441

25A	6/12/24V
CA 350	

Ref. 024489



CHARGERS
AUTOMATIC



Protection for on-board electronics

9,5A	6/12V
WATTMATIC 100	

Ref. 024823

Ref. 025417

15A	6/12V
WATTMATIC 150	

Ref. 024847

Ref. 025387

18A	6/12V
WATTMATIC 180	

Ref. 024861

Ref. 025400



PATENTS REGISTERED NUMBERS
001652090-0002
EUROPEAN TRADEMARK & DESIGN



Fuse X10

15A : Ref.054493 (WATTMATIC 100)

20A : Ref.054509 (WATTMATIC 150)

25A : Ref.054516
(CA 170, CA 350, WATTMATIC 180)

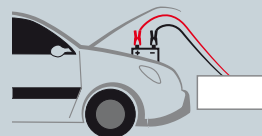
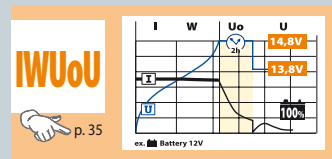
30A : Ref.054523 (CA 225)



PRODUCT LINE

CHARGE										Fuse	Dimensions	Weight	Recommendation	Car	Van	Truck	Tractor	Excavator	Trailer
Model	Ref.	Voltage	Power	Reg	Efficace / RMS	Moyen / Average (EN 60335)	Reg 1	Reg 2	Reg 3										
WATTMATIC 100 automatic	024823	230V, 50 Hz	140W	6/12V	2	9,5A	3,5A	6,5A	—	15A	23 x 18 x 11 cm	3,6 kg	WATTMATIC 100 automatic	6V 12V	15 > 100 Ah				
WATTMATIC 150 automatic	024847	230V, 50 Hz	220W	6/12V	2	15A	5A	10A	—	20A	30 x 20 x 12 cm	5,5 kg	WATTMATIC 150 automatic	6V 12V	20 > 150 Ah				
WATTMATIC 180 automatic	024861	230V, 50 Hz	260W	6/12V	2	18A	6A	12A	—	25A	30 x 20 x 12 cm	5,7 kg	WATTMATIC 180 automatic	6V 12V	25 > 180 Ah				
CA 170 automatic	024397	230V	500W	12/24V	2	18A	7,5A	12A	—	25A	29 x 20 x 11 cm	6 kg	CA 170 automatic	12V 24V	35 > 170 Ah				
CA 225 automatic	024441	230V	700W	12/24V	2	22A	8A	15A	—	30A	36 x 26 x 14 cm	9,5 kg	CA 225 automatic	12V 24V	35 > 225 Ah				
CA 350 automatic	024489	230V	1150 W	6/12/24V	3	37A	7A	15A	25A	2x25A	40 x 27 x 17 cm	14 kg	CA 350 automatic	6V 12V 24V	40 > 350 Ah				

SMART
CHARGERS
AUTOMATIC



Protection for on-board electronics



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**

&

IUlo

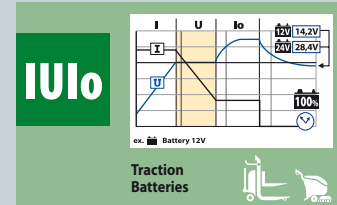
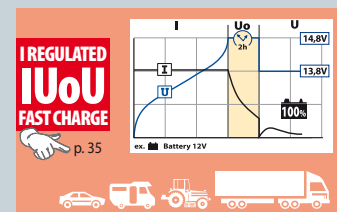
Specific charge
Traction batteries



2 in 1



**SULPHATED
BATTERIES
SOS RECOVERY**



SMART
CHARGERS
AUTOMATIC

15 A 6/12V
BATIUM 15/12
Ref. 024519 Ref. 024632



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

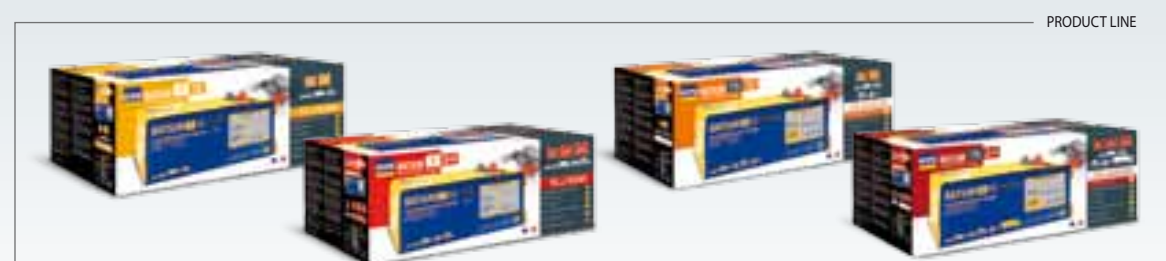
**SULPHATED
BATTERIES
SOS RECOVERY**



Fuse X10

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

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



PRODUCT LINE

		50 / 60 Hz		CHARGE		Efficace / RMS			Moyen / Average (EN 60335)			Fuse		Dimensions		Weight		SOS RECOVERY	
BATIUM 7/12	024496		024557	230V	105W	6/12V	2	11 A	3 A	7 A	—	15 A	28 x 20 x 12 cm	4,2 kg	—	—	—	—	—
BATIUM 7/24	024502		024625	230V	210W	6/12/24V	2	11 A	3 A	7 A	—	15 A	28 x 20 x 12 cm	5,2 kg	—	—	—	—	—
BATIUM 15/12	024519		024632	230V	225W	6/12V	3	22 A	7 A	10 A	15 A	30 A	31 x 20 x 13 cm	5,7 kg	•	•	•	•	•
BATIUM 15/24	024526		024588	230V	450W	6/12/24V	3	22 A	7 A	10 A	15 A	30 A	31 x 20 x 13 cm	8,5 kg	•	•	•	•	•
BATIUM 25/24	024533		024618	230V	1150W	6/12/24V	3	37 A	7 A	15 A	25 A	—	40 x 25 x 18 cm	13 kg	•	•	•	•	•

Recommendation																	
BATIUM 7/12	6V 12V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BATIUM 7/24	6V 12V 24V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BATIUM 15/12	6V 12V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BATIUM 15/24	6V 12V 24V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BATIUM 25/24	6V 12V 24V	35 > 180 Ah	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

CHARGERS INVERTER



20 A 12/24V
INVERTER 20.24 HF

Ref. 029217



20/40 A 12/24V
INVERTER 40.24 HF

Ref. 029248

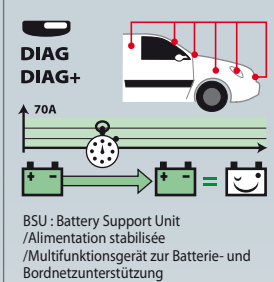
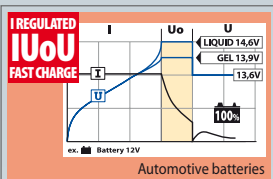
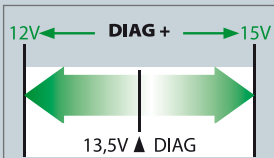
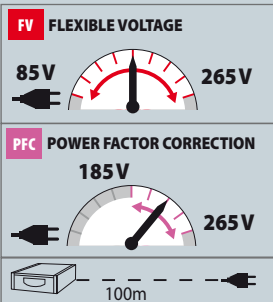
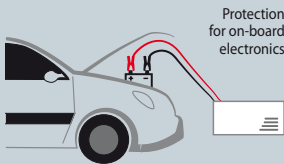


Fuse X10

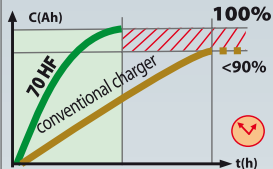
25A : Ref.054516
(INVERTER 40.24 HF)

30A : Ref.054523
(INVERTER 20.24 HF)

BSU CHARGER HF 70.12 & 70.24



Technology & Avantages



Avantages : 50% de gain de temps
+ batterie chargée à 100%

Advantages : 50% of time saved
+ battery 100% charged

Vorteile : 50% Zeitersparnis
+ 100% Vollladung

Ventajas : ahorro de tiempo de 50%
+ batería cargada a los 100%



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
Siège chauffant : 15A

Stand-by : 5A
Window opening : 10A
Windscreen wipers : 11A
Screen wash : 8A
Full beam : 19A
Rear window
de-mister : 15A
Radiator cooling fan : 36A
Heated seats : 15A

Chariot/Trolley /Fahrwagen



Ref. 054608



OPTION



Ref. 051362

Tablette /Wall support /Halterung



Ref. 054592

Fuse Kit 80 A



Ref. 054653

CHARGERS & BSU (BATTERY SUPPORT UNITS)

70 A 12V
INVERTER 70.12 HF

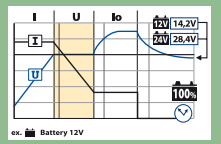
Ref. 029279



L = 5 m

70 A 6/12/24V
INVERTER 70.24 HF

Ref. 029286



+



L = 2,5 m

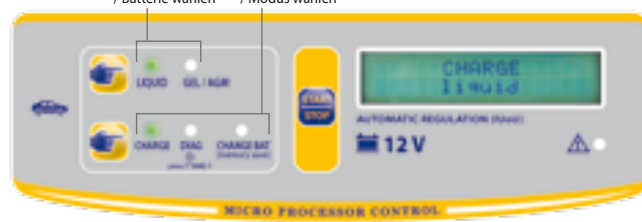
Option 5 m
Ref. 054615

EASY TO USE /Anwenderfreundlich

70.12 HF

Select Battery
/ Batterie wählen

Choose Mode
/ Modus wählen



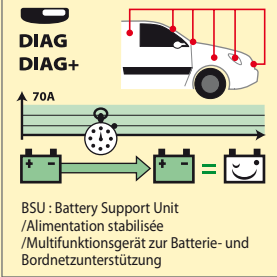
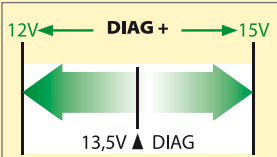
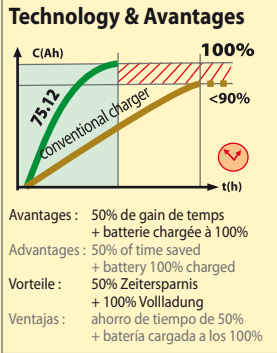
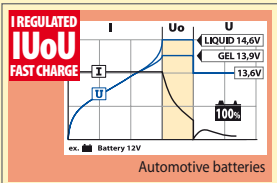
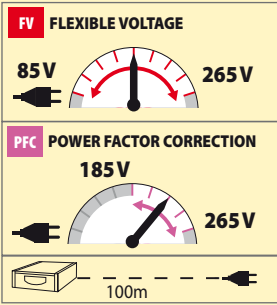
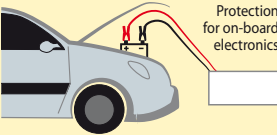
70.24 HF

Select Battery
/ Batterie wählen

Choose Mode
/ Modus wählen



	50 / 60 Hz	Start mini	CHARGE	BSU	Fuse	36 x 26 x 14 cm	5,0 kg	Recommendation	40 > 400 Ah	12V : 25 > 800 Ah 24V : 25 > 400 Ah	10 > 850 Ah	12V : 45 > 225 Ah (8h) - 45 > 450 Ah (14h) 24V : 45 > 125 Ah (8h) - 45 > 225 Ah (14h)	6/12V : 10 > 850 Ah 24V : 10 > 425 Ah	SOS RECOVERY
INVERTER 20.24 HF	230V	12V	700W	3V	8 - 20 A	14,3V	14,8V	13,8V	—	—	—	—	—	—
INVERTER 40.24 HF	230V	12V	700W	3V	8 - 20 A	28,6V	29,6V	27,6V	—	—	—	—	—	—
INVERTER 70.12 HF	85 > 265V	12V	1150W	1V	1 ... 70 A	13,9V	14,6V	13,6V	13,5V	12 > 15V	12V : 55 A @ 100 %	—	—	—
INVERTER 70.24 HF	85 > 265V	6V	575W	1V	1 ... 70 A	7V	7,3V	6,8V	—	—	—	—	—	—
		12V	1150W	1V	1 ... 70 A	13,9V	14,6V	13,6V	13,5V	12 > 15V	12V : 45 A @ 100 %	—	—	—
		24V	1150W	1V	1 ... 35 A	27,8V	29,2V	27,2V	27V	—	24V : 20 A @ 100 %	—	—	—



i 70A
Ideal
During Diagnostics
/ Ideal während
Fahrzeug-diagnose

Stand-by : 5A
Window opening : 10A
Windscreen wipers : 11A
Screen wash : 8A
Full beam : 19A
Rear window
de-mister : 15A
Radiator cooling fan : 36A
Heated seats : 15A

Veille : 5A
Ouverture Vitre : 10A
Essui-glace : 11A
Lave-glace : 8A
Phares : 19A
Dégivrage
lunette arrière : 15A
Moto ventilateur : 36A
Siège chauffant : 15A

Ruhezustand : 5A
Fensterheber : 10A
Scheibenwischer : 11A
Scheibenwaschanlage : 8A
Scheinwerfer : 19A
Beheizbare
Heckschreibe : 15A
Motorlüftung : 36A
Sitzheizung : 15A

FR Le chargeur 75.12 HF est une alimentation 12 V stabilisée de forte puissance (75A) qui utilise la technologie INVERTER SMPS (Switch Mode Power Supply) avec 3 fonctions :

- Soutenir les batteries 12 V (Liquide ou Gel) des véhicules en phase de diagnostic.
- Garantir une qualité de charge idéale à courant constant lissé et stabilisé pour l'entretien des modèles les plus évolués.
- Compenser en mode "change battery" les besoins électriques pour sauvegarder les mémoires.

Protection généralisée : pour l'électronique embarquée, le chargeur et la batterie.

GB The charger 75.12 HF utilises a highly stabilised power supply (75A) using INVERTER SMPS technology (Switch Mode Power Supply) with 3 key characteristics :

- Designed to sustain liquid or gel 12V vehicle batteries during diagnostic work.
- It ensures a high quality charge ideal for the latest technology batteries.
- When on "change battery" mode, it protects sensitive vehicle electronics and memory settings.

DE 75.12 HF ist ein leistungsstarkes 12V, 75A Ladegerät mit Hochfrequenzinverter für spannungsspitzenfreie Stromversorgung mit SMPS-Technologie (Switch Mode Power Supply) und bietet 3 Vorteile :

- Unterstützung von 12V Batterien (Flüssig oder Gel) während der Kfz-Diagnosephase
- Gewährleistet eine gleichmäßige Ladung durch geglätteten Konstantstrom
- Regulierung der Energiezufuhr zur Sicherung der werkseitigen Voreinstellungen des Fahrzeuges, Schutz der gesamten Bordelektronik, des Ladegerätes und der Batterie

ES El cargador 75.12 HF es una alimentación estabilizada con fuerte potencia (75A) que utiliza la tecnología INVERTER SMPS (Switch Mode Power Supply) con 3 funciones :

- Concebido para sostener baterías de 12V (Líquido o Gel) de vehículos en fase de diagnóstico.
- Garantiza una calidad de carga ideal para el mantenimiento de los modelos más innovadores
- En modo "change battery", compensa las necesidades eléctricas para salvaguardar las memorias.

NL De 75.12 HF lader is een maximaal gestabiliseerde hoog-vermogen voeding die gebruik maakt van INVERTER SMPS technologie (Switch Mode Power Supply) met 3 eigenschappen:

- Ontwikkeld om zuur- of gel 12V accu's te ondersteunen tijdens diagnose werkzaamheden.
- Lading van hoge kwaliteit, zeer vlak en gestabiliseerd, ideaal voor de modernste accu's.
- In "accu laad" mode wordt het verbruik van de auto gecompenseerd, om instellingen te bewaren. Algehele beveiliging van on-board electronica, de lader en de accu.

EASY TO USE / Anwenderfreundlich



OPTIMISATION

7 langues / 7 languages / 7 Sprachen / 7 idiomas

Vérification et étalonnage câbles et pinces
/ Checking & calibration of clamps and cables
/ Prüfung und Kalibrierung der Kabel/Zangen
/ comprobación y calibración de los cables y pinzas

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

PT O carregador 75.12 HF é uma fonte de alimentação altamente estabilizada usando a tecnologia do INVERTOR SMPS (fonte de alimentação modo de interruptor) com 3 características chave:

- Produzido para suportar baterias de automoveis de 12V de liquido ou gel, durante a fase de diagnostico.
- Assegura uma carga de alta qualidade, suave e estabilizada, com a última tecnologia no cuidado de baterias.
- Quando no modo "carga bateria" a bateria compensa as necessidades eléctricas a fim de conservar as configurações.

Protecção geral da electrónica do veículo, do alternador e da bateria.

GR φορτιστής 75.12 HF είναι μια μονάδα ισχυρά σταθεροποιημένης ισχύος που χρησιμοποιεί τεχνολογία INVERTER SMPS (Switch Mode Power Supply) με 3 βασικά χαρακτηριστικά :

- Σχεδιασμένος να υποστηρίζει συσσωρευτές 12V υγρού ηλεκτρολύτη ή γέλης κατά τον διαγνωστικό έλεγχο.
- Εξασφαλίζει μία υψηλής ποιότητας φόρτιση, απαλή και σταθεροποιημένη, ιδανική για τη φροντίδα συσσωρευτών τελευταίας τεχνολογίας.
- Κατά τη λειτουργία φόρτισης, συνεισφέρει στις ηλεκτρικές καταναλώσεις για να παραμένουν στη μνήμη οι ρυθμίσεις.

Γενική προστασία των ηλεκτρονικών του οχήματος, του φορτιστή και του συσσωρευτή.

RU Зарядное устройство 75.12 HF – это стабильное питание большой мощности благодаря использованию технологии INVERTER SMPS (Switch Mode Power Supply). Обладает 3-мя функциями: • Создан с целью поддержки 12-Вольтных аккумуляторов (Жидкий или Гелевый электролит) автомобилей находящихся в фазе диагностики.

- Гарантирует идеальное качество зарядки при обслуживании самых современных моделей.
- В режиме "change battery" (замена аккумулятора) он компенсирует расход электричества необходимого для сохранения настроек

★ 是一款使用逆变开关模式电源技术的高能稳压式充电机，包括以下三大功能

- 支持在诊断阶段的使用12V蓄电池（液体或胶状）的汽车。
- 均匀和稳定的恒定电流保证最佳的充电质量以维护最先进的汽车类型。
- 在“更换蓄电池”功能下，能补偿所需电流以储存车内纪录。

全面保护功能保护车内电子元件，充电机和蓄电池。

CONTROL PANELS

CHARGE

État de charge
/ Charge status
/ Ladezustand
/ estado de carga

CHANGE BATTERY

Courant de compensation fourni par le chargeur
/ Compensation current supplied by the charger
/ Kompensationsstrom durch Ladegerät
/ Corriente de compensación proporcionada por el cargador

DIAG / SHOWROOM

Courant délivré au véhicule
/ Current sent to the car
/ Stromversorgung-Fahrzeug
/ corriente liberada en el vehículo

Tension réglable de 12 à 15V
/ Adjustable output voltage from 12 to 15V
/ Einstellbare von 12 bis 15V
/ Tensión ajustable de 12 a 15V

(+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 supera a los 70A. Parar el diagnostico o reducir los consumidores

CHARGER & BSU (BATTERY SUPPORT UNIT)



75 A 12V

GYSFLASH 75.12

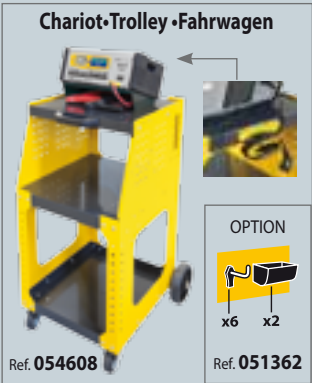
Ref. **029262**

FV PFC

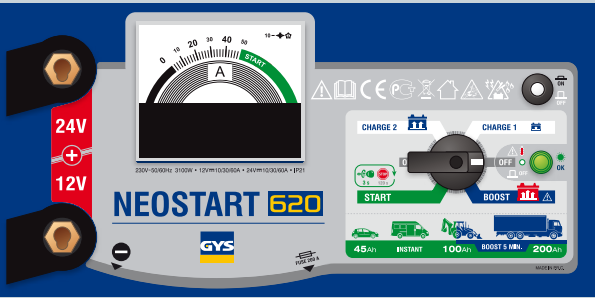


i Recommendation	
GYSFLASH 75.12 HF	12V
10 > 850 Ah	

GYSFLASH 75.12 HF	029262	50 / 60 Hz	12V	1150W	1V	1 - 75 A	CHARGE			Diag / Showroom	40°C/230V	Fuse	37 x 25 x 16 cm	6,5 kg
							Equalize/Absorption	Gel	Liquid					
							13,9V	14,6V	13,6V	13,5V (Reg. 12V ... 15V)	12V : 55 A @ 100 %	80 A		



TRADITIONAL
STARTERS
& CHARGERS



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 200A x 2
Ref. 054547

					CHARGE						START				Recommendation		50 Ah > > > > 100 Ah > > > > 150 Ah > > > > 200 Ah										
		50/60 Hz				Efficace / RMS	Moyen / Average (EN 60335)	Automatic	pos. Manual	min > max	1V/C	0V/C															
PROSTART 430	025219 025226	230V	16 A	12/24V	3	52 A	35 A	—	•	20 > 700 Ah	250 A	430 A	—	33 x 25 x 64 cm	24 kg	PROSTART 430											
PROSTART 610	025257 025264	230V	16 A	12/24V	3	72 A	45 A	—	•	20 > 1000 Ah	400 A	610 A	—	33 x 25 x 64 cm	28 kg	PROSTART 610											
NEOSTART 420	025295 025479	230V	16 A	12/24V	3	70 A	45 A	—	•	20 > 1000 Ah	300 A	420 A	—	47 x 32 x 27 cm	20,5 kg	NEOSTART 420											
NEOSTART 620	025288 025486	230V	16 A	12/24V	3	90 A	60 A	—	•	20 > 1350 Ah	360 A	620 A	—	47 x 32 x 27 cm	24 kg	NEOSTART 620											

instant

Precharge (=10 min)

instant
Precharge
(=10 min)

AUTOMATIC STARTERS & CHARGERS

W2
p. 35

&

CHARGE

ELECTRONIC CONTROL

MANUAL

OVER PROTECTION VOLTAGE
AUTOMATIC CONTROL

235 A 12V
GYSTART 235

Ref. 025318

600 A 12V
GYSTART 612 E

Ref. 025332



5m

700 A 12/24V
GYSTART 724 E

Ref. 025356



5m

900 A 12/24V
GYSTART 924.230

Ref. 025363



5m

1 200 A 12/24V
GYSTART 1224 T

Ref. 025394



5m



230V

32 A, 1 ph (included)
Connector 16 A, 1 ph
230V

TRI
400V
3 ph



Fuses 200A x 2
Ref. 054547

					CHARGE					START					Recommendation		50 Ah > > > > 100 Ah > > > > 150 Ah > > > > 200 Ah										
		50/60 Hz				Efficace / RMS	Moyen / Average (EN 60335)	Automatic	pos. Manual		min > max	1V/C	0V/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 235	12V										
GYSTART 612 E	025332	230V	16 A	12V	ELECTRONIC 10/45	70 A	45 A	•	•	20 > 1000 Ah	350 A	600 A	•	36 x 28 x 78 cm	26 kg	GYSTART 612 E	12V										
GYSTART 724 E	025356	230V	16 A	12/24V	ELECTRONIC 10/45	70 A	45 A	•	•	20 > 1000 Ah	400 A	700 A	•	36 x 28 x 78 cm	30 kg	GYSTART 724 E	12V 24V										
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 924.230	12V 24V										
GYSTART 1224 T	025394	400 V (TRI)	16 A	12/24V	3	80 A	60 A	•	•	65 > 1350 Ah	780 A	1200 A	•	41 x 32 x 84 cm	56 kg	GYSTART 1224 T	12V 24V										

instant

Precharge
(=10 min)

BOOSTERS + POWER SUPPLY

WU Floating Process
Charge 100%
p. 35

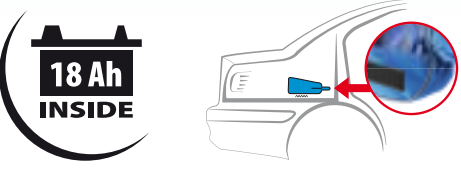
1 250 A	12V	1V/C 480 A
GYSPACK AUTO		
Ref. 026230	Ref. 025424	



1 250 A	12V	1V/C 480 A
GYSPACK AIR 400		
Ref. 026322	Ref. 025431	



Isolated clamps
500 A
1,1 m
ø 25 mm²



1 REGULATED
IuOu
FAST CHARGE
p. 35

2 500 A	12V	1V/C 750 A
GYSPACK 750		
Ref. 026179		



NEW
07/2013

Isolated clamps
500 A
1,3 m
ø 25 mm²



Power Supply
18 Ah · 12V DC

AUTOMATIC CHARGER
Power in 12V
included

FV FLEXIBLE VOLTAGE
85V — 265V

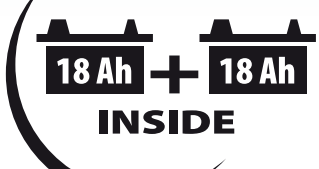


2 350 A	12V	1V/C 650 A
1 150 A	24V	1V/C 500 A
GYSPACK TRUCK		
Ref. 025448		



NEW
07/2013

Isolated clamps
500 A
1,8 m
ø 25 mm²



230V
Après chaque utilisation
After each use
Nach jeder Anwendung

			12V	START	ON/OFF	Power Supply	Charge 230V	TEST		
			Inside	1 V/C	Cranking CC	Peak Battery	EXTERNAL 12V DC			
GYSPACK AUTO	026230	025424	18 Ah	480 A	900 A	1 250 A	—	—	—	7 kg
GYSPACK AIR 400	026322	025431	18 Ah	480 A	900 A	1 250 A	•	18 bars	—	8,9 kg

230V
Après chaque utilisation
After each use
Nach jeder Anwendung

			12V	START	ON/OFF	Fuse	Power Supply	Charge 230V	TEST	
			Inside	1 V/C	Cranking CC	Peak Battery		EXTERNAL 12V/2 A DC		
GYSPACK 750	026179		26 Ah	12V	750 A	1450 A	•	2 x 200 A	—	13 kg
GYSPACK TRUCK	025448		2 x 18 Ah	12V	650 A	1250 A	•	2 x 200 A	—	18 kg
				24V	500 A	950 A				

Fuses 200 A x 2
(GYSPACK 750 & GYSPACK TRUCK)
Ref. 054547



BOOSTERS
CAR + TRUCK



p. 35

1 200 A

12V

1V/C 640 A

GYSPACK 650

Ref. 026254



1 096 700

1 700 A

12V

1V/C 830 A

GYSPACK 810

Ref. 026278



1 096 701



1 700 A

12V

1V/C 900 A

1 350 A

24V ★

1V/C 700 A

STARTPACK 12.24

Ref. 026285



2 400 A

12V

1V/C 1300 A

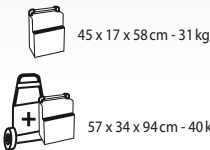
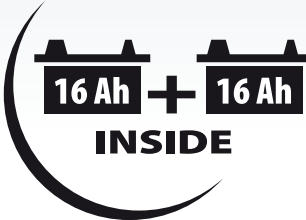
2 250 A

24V ★★ ★

1V/C 1200 A

GYSPACK PRO 12.24

Ref. 026452



Fuses 200 A x 2
Ref. 054547



Après chaque utilisation
After each use
Nach jeder Anwendung

		12V	START				CHARGER INSIDE	Protection			Power out	Fuse			
			Inside	1V/C	Cranking CC	Peak Battery		ON OFF	DC	AC					
GYSPACK 650	026254	16 Ah	12V	640 A	1200 A	1800 A	•	3 A	•	•	→ 12V DC	15 A	2 x 1,4 m ø 25 mm ²	33 x 20 x 33 cm	11 kg
GYSPACK 810	026278	30 Ah	12V	830 A	1700 A	3100 A	•	3 A	•	•	→ 12V DC	15 A	2 x 1,8 m ø 35 mm ²	33 x 20 x 33 cm	15 kg
STARTPACK 12.24	026285	2x16 Ah	12V	900 A	1700 A	3600 A	•	7 A	•	•	—	20 A	2 x 1,8 m ø 35 mm ²	17 x 33 x 48 cm	23 kg
GYSPACK PRO 12.24	026452	2x30 Ah	12V	1300 A	2400 A	6200 A	•	7 A	•	•	—	20 A	2 x 2 m ø 50 mm ²		
			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 ★★ ★



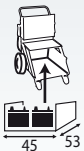
BOOSTER TRUCK & BUS

CHARGER AUTOMATIC X2

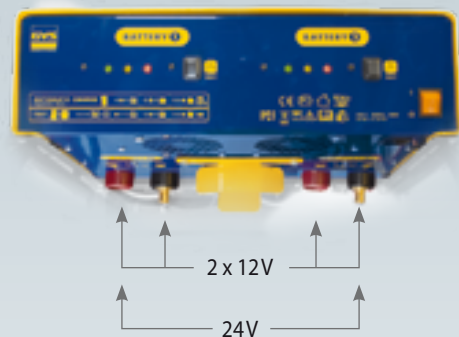


12/24V
ENERGY STATION

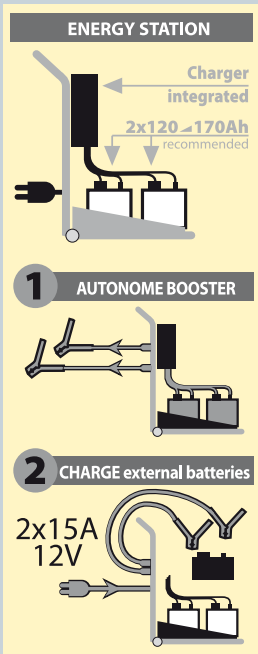
Ref. 026148



Batteries non fournies
Batteries not provided
Ohne Batterie



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



MEMORY AUTO SAVE

GYSPACK OBD

Ref. 054998

Ref. 055001



OBD



Après chaque utilisation
After each use
Nach jeder Anwendung

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

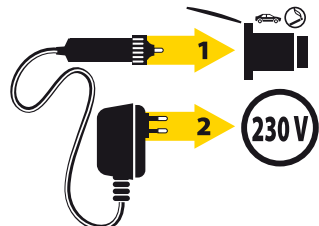


< 4A

SAUVEGARDE MÉMOIRE
/ Memory auto save
/ Speicherschutz

230V/12V

Ref. 055018



 Recommendation				        							Charge External batteries
ENERGY STATION		 									OK

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

JUMPER CABLES CONSUMER

NEW



Ref.			
056367	200 A (car 1,2 l)	2,5 m	7 mm ²

ISOLATED CLAMPS



NEW

Ref.			
056398	200 A (car 1,5 l)	2,8 m	10 mm ²
056411	320 A (car 2,5 l)	3 m	16 mm ²
056428	500 A (car 3/5,5 l)	3,5 m	25 mm ²
056442	200 A (truck 4/7 l)	4,5 m	35 mm ²

ISOLATED CLAMPS & LED



NEW

Ref.			
056374	300 A (car 2,5 l)	3 m	16 mm ²
056381	500 A (car 3/3,5 l)	3,5 m	25 mm ²

JUMPER CABLES PROFESSIONAL

ISOLATED CLAMPS

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



MADE IN P.R.C



Ref.			
056312	200 A (car 1,5 l)	2,8 m	10 mm ²
056329	320 A (car 2,5 l)	3 m	16 mm ²
056336	500 A (car 3/5,5 l)	3,5 m	25 mm ²
056343	700 A (truck 4/7 l, PRO)	4,5 m	35 mm ²

PRO

BRASS CLAMPS

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



MADE IN P.R.C



Ref.			
056206	320 A	3 m	16 mm ²
564015	500 A	3 m	25 mm ²
056404	700 A	4,5 m	35 mm ²
056602	1000 A	5,1 m	50 mm ²

MADE IN FRANCE

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



Ref.			
056541	700 A	4,5 m	35 mm ²

SUPER PRO

MADE IN FRANCE

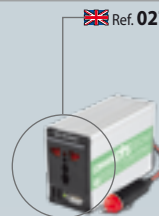


Ref.			
056619	1000 A	5 m	50 mm ²

POWER INVERTER 12V > 230V



CONVERGYS 150

Ref. **027015** Ref. **027008**

CONVERGYS 300

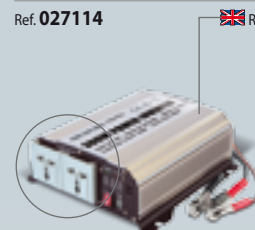
Ref. 027053

 Ref. 027046

POWER INVERTER 12V > 230V

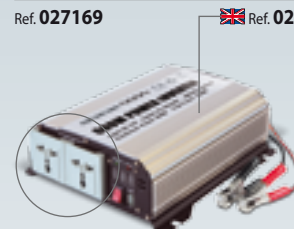


PSW 8300

Ref. **027114** Ref. **027107**

PSW 8600

Ref. 027169

 Ref. **027152**

PSW 81500

Ref. 027220

 Ref. **027190****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

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

TESTERS

TRADITIONAL



TBP 100
Ref 055131

TBP 500
Ref 055148

12V

ELECTRONIC

6V - 12V



BT 111 DHC
Ref 055155

BT 222 DHC
Ref 055216

BT 280 DHC
Ref 055261



RT 002 DHC
Ref 055230



GESTION LOGICIELLE
DE LA BATTERIE
BATTERY MANAGEMENT
SOFTWARE
SOFTWARE BATTERIE
MANAGEMENT



RT 777 DHC
Ref 055247



BT 501 DHC
Ref 055209

7
LANGUAGES
SPRACHEN

PRINTERS
DRUCKER

STANDARD
57mm (W)

BT 501 DHC
x2 (included)
Ref. 056220

RT 777 DHC
x1 (included)
Ref. 056237

				TEST				DIGITAL						
			BATTERY A	BATTERY V	CHARGING & STARTING SYSTEM VEHICLE									
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	—	12x7,9x227	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		PRINT PAPER					
	batteries/Battery/ Ladegeräte	Circuit alternateur/ Alternator Circuit/ Lichtmaschinen Schaltkreis						
TBP 100	6V 12V	12V	—		20 > 100 Ah			
TBP 500	12V	12V	—		10 > 160 Ah			
BT 111 DHC	12V	—	—		20 > 150 Ah			
BT 222 DHC	12V	12V	—		20 > 150 Ah			
BT 280 DHC	12V	12V	—		4 > 150 Ah			
RT 002 DHC	6V 12V	12V 24V	—		7 > 230 Ah			
BT 501 DHC	6V 12V	12V 24V	•		7 > 230 Ah			
RT 777 DHC	6V 12V	12V 24V	•		7 > 230 Ah			

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

Multicharge Station DHC 54E
Ref. 025097



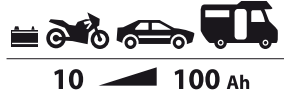
Charge automatique • Automatic charge
• Automatischer Ladevorgang

4 x 5A 12V (liquid/gel)

5 étapes • 5 steps • 5 Schritte

Pulse/Boost/Egalisation/100%/Floating

Maintenance/Zusatzhülsenkit



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



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

ø 10 mm / 35 mm ²	ø 13 mm / 50 mm ²	ø 16 mm / 70 mm ²	Quick Connector ø 10 mm / 50 mm ² I max = 1000 A Ref. 054455
x1 054400			
x25 Ref.054431	x25 Ref.054332	x25 Ref.054417	
x25 Ref.054448	x25 Ref.054349	x25 Ref.054424	

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

10A : 054530	100A : 054486
15A : 054493	100A : 054547
20A : 054509	
25A : 054516	
30A : 054523	
40A : 054554	
x10	x10
x10	x2

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

Protection anti-arc 12V • Anti-arc protection 12V • Lichtbogenschutz 12V
• 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



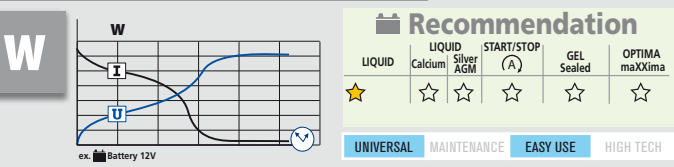
Pèse acide antigel • Acidimeter (PH Meter)
• Säure/Frostschutzmittel-Tester • Acido densímetro anticongelante
• Zuurweger • Medidor de PH (ácido)
• Μετρητής οξύτητας (PH) • Ацидиметр (рН-метр) • 防冻酸度计

Ref. 054103



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

TRADITIONAL

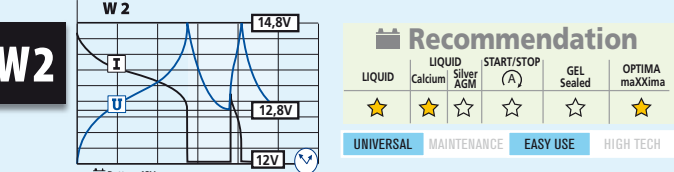


Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		

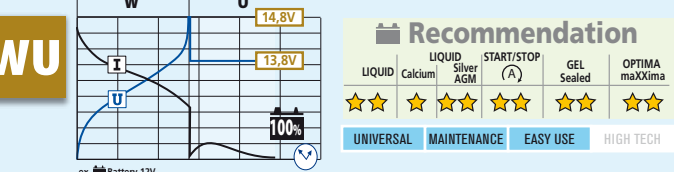


AUTOMATIC



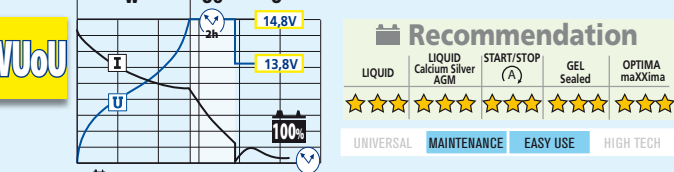
Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		



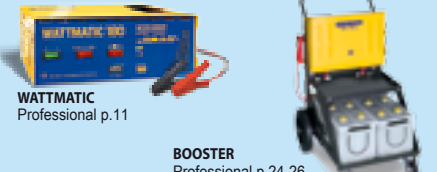
Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		

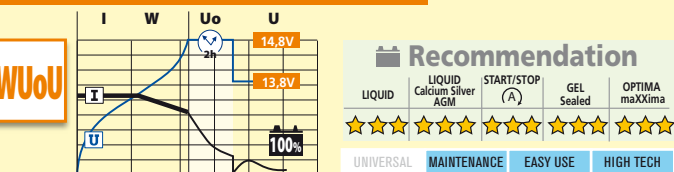


Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		

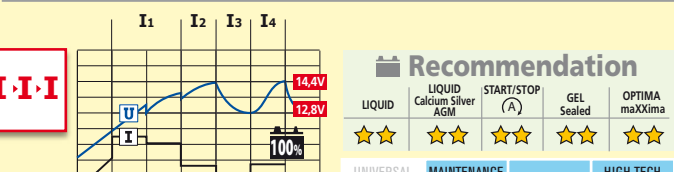


AUTOMATIC FAST CHARGE



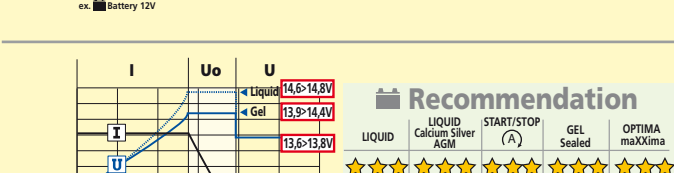
Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		



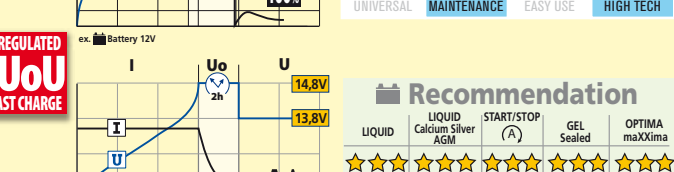
Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		



Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		



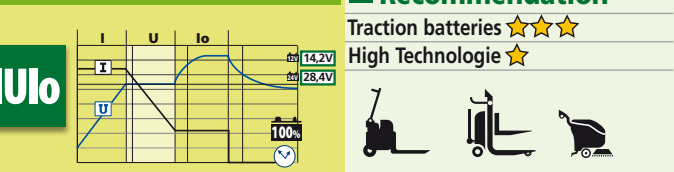
Recommendation

LIQUID	LIQUID Calcium	Silver AGM	START/STOP (A)	GEL Sealed	OPTIMA maXXima
★	★	★	★	★	★
UNIVERSAL	MAINTENANCE	EASY USE	HIGH TECH		



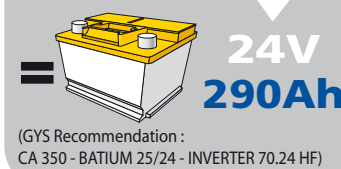
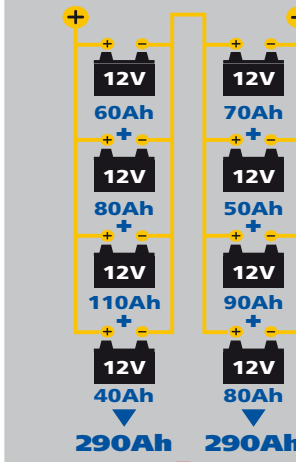
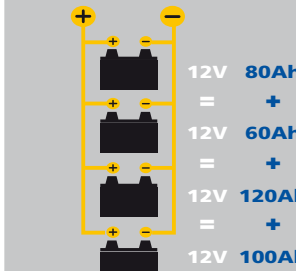
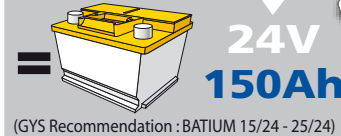
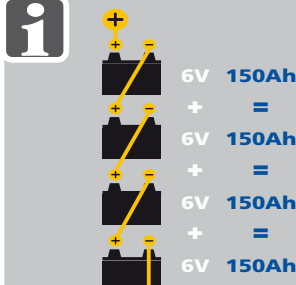
BATTERIES DE TRACTION - Traction batteries - Traktionsbatterien - Baterías de tracción - Tractieaccu's - Baterias de Tracção - Μπαταρίες έλξεως - Тяговые батареи - 牵引用铅酸蓄电池

AUTOMATIC FAST CHARGE



Recommendation

Traction batteries ★★★★★
High Technologie ★



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



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