The best deserve the best! Market leading solutions for 230VAC and Battery charging







The DEFA PlugIn System





A complete solution for 230VAC Power Supply and Battery charging

The Vehicle is fast becoming the mobile office of the skilled tradesman. To charge and power tools, computers and electrical systems, there's a growing need for flexible and user-friendly 230VAC power supply solutions. An Inverter has become a natural part of the installation in modern Commercial Vehicles, but many owners are not aware that using Inverter quickly drains and degrades the Battery. We recommend installing an onboard Battery Charger to maintain Battery performance and longevity. The DEFA Plugln Cable and Connector System ensures that our Inverters and Battery Chargers can be easily integrated in your Vehicle both lead/acid and Li-ion. It has no fan and produces no noise. The power supply function provides continuous current and stable voltage and helps you avoid lost data during ECU programming or a Battery change.

A unique cable system

The DEFA PlugIn system has the best 230V Connector on the market, and is designed to facilitate the installation of a complete 230VAC system. Installing and connecting a PlugIn system is very easy, requires no tools and can be done by non-professionals.

All-inclusive kits

Our most popular products are available in kits that also include all the Cables and accessories that you need to install the product in your vehicle. To provide added flexibility, the MiniPlug Connection Cable is ordered separately in the desired length.

Leading manufacturer

We have perfected our PlugIn system over many years and we are now the leading provider of power supply and charging systems for Vehicles of all sizes and specifications.

Products of the highest quality

Research, quality control, and close cooperation are all central tenets of our product development philosophy. Research and development take place in our own factories, and our products undergo rigorous testing to ensure that they meet the most stringent requirements in the market. As a result, Customers trust our products for the most demanding applications, such as in Emergency Vehicles.

The DEFA Plugin System





The mobile work space

If you are an installer or a skilled tradesman, access to 230VAC power and proper Battery maintenance in your Vehicle is essential to performing your job. Our solutions provide the reliability and efficiency that you need.

A complete solution: Battery charging + preheating + 230VAC power supply

The DEFA PlugIn system is modular, and can be expanded with additional components when the need arises. By adding Cabin and engine heaters you can get into a warm car with windows free of ice and snow - every morning, all year round.





Permanent access to 230VAC power

An Inverter provides access to 230 VAC in the Vehicle, making it possible to charge or operate most types of electrical equipment. Our Inverters meet the highest standards of quality and safety. They are designed to withstand heavy use and provide the best possible voltage at all times. You can expand the system with additional outlets at any time. All Inverters can be controlled remotely via a control panel. This makes it easier to use Inverter when it is placed in a hard-to-reach area..



DEFA Inverter Kits



DEFA's Inverter Kits are designed to make ordering and installation as easy as possible. DEFA Inverter Kits include all the Products and Cables required for a complete installation. For specifications of the contents in each Inverter Kit, refer to page 9. All Products can also be purchased separately.

Inverter Kit 300 W

Inverter 300 W 12 V is suitable for the power supply of TVs, computers, etc.

Inverter Kit 600 W

Inverter 600 W 12 V is suitable for the power supply of TVs, computers, etc.

Inverter Kit 1200 W

DEFA's latest Inverter, 1200 W, has a built-in power save mode, which means that power consumption from the Battery is minimal if the Inverter is connected, but without load. Two versions of Inverter 1200 W are available, one of which has a built-in transfer switch. We recommend using an additional Battery when installing Inverter Kit 1200 W.

Inverter Kit 1500 W

Inverter 1500 W is suitable for powering Products with high output such as tools, coffee makers, etc. We recommend using an additional Battery when installing Inverter Kit 1500 W.

Inverter Kit 2000 W

Inverter 2000 W is suitable for powering Products with high output such as tools, coffee makers, etc. We recommend using an additional Battery when installing Inverter Kit 2000 W.



Choosing an inverter kit:

What Inverter size do you need? The answer depends how much power your equipment needs. A good rule of thumb is to double the equipment output and then choose the nearest Inverter above this amount.

Refer to the example below.

Calculation example				
Product	Output	Recommended Inverter size		
Tablet	~10 W	300 W		
Computer	~90 W	300 W		
Drill	~850 W	1200 W		
Vacuum Cleaner	~1000 W	1200 W		



DEFA MultiChargers – Permanently-installed Battery Chargers



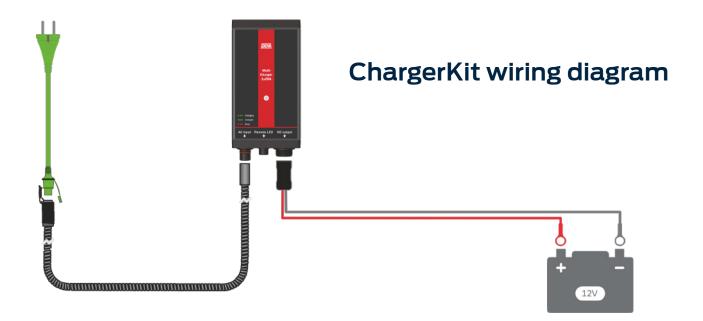
Get the most out of your Battery

We develop and manufacture a wide range of intelligent Battery Chargers, that help your Customers maintain Battery performance and longevity. Our Chargers are compact, highly efficient and analyses each Battery to create an optimised, temperature compensated charging curve. We have solutions for Vehicles of all types and sizes.

Our Battery Chargers are designed for use with our Proprietary Waterproof Cables (IP44) and Plug-in Connectors, providing straightforward installation and easy handling. The Chargers can be easily integrated or extended with Remote Panels, Inverters and the AutoSwitch Priority Selector to obtain a complete system. The Chargers are suitable for all Lead-Acid Batteries (AGM, GEL, EFB, start-stop).

The Battery Chargers are purchased separately or in pre-packaged **ChargerKits**, which contain everything you need for a complete installation.





DEFA PlugIn system accessories



DEFA's ChargerKits are designed to to make ordering and installation as easy as possible. DEFA ChargerKits include all the Products and Cables required for a complete installation. For specifications of the contents in each ChargerKit, refer to page 9. All Products can also be purchased separately.

ChargerKit 1210 Flex | 10A

A complete kit for small Vehicles with a compact Battery Charger and Cabling. Flexible connectors allow for quick and easy installation.



ChargerKit 12A & 2x12A

For permanent installation in small Vehicles. For Batteries up to 2x150Ah. MultiCharger 2x12A must be used when both the starter and main Battery need to be charged.



ChargerKit 20A & 2x20A

Powerful and compact Battery Charger with Cabling. Can be easily installed in all types of Vehicles. MultiCharger 2x20A must be used when both the starter and main Battery need to be charged. For Batteries up to 2x250Ah.



MultiCharger 35A & 2x35A (not available as ChargerKit)

Compact and powerful Battery Charger for use in heavy Vehicles. Cables in desired lengths and remote panels are ordered separately, which results in a flexible system that can be adapted to any situation. MultiCharger 2x35A must be used when both the starter and main Battery need to be charged. For Batteries up to 2x600Ah.





Permanent access to 230VAC power

There's a wide range of Accessories available for the DEFA PlugIn system. Go to defa.com see more. To view the full range, visit defa.com.



Inverter Control Panels

All Inverters can be remotely controlled from a separate control panel, making it easier to use the equipment when the Inverter is installed in a hard-to-reach area. Available in both externally-mounted and recessed versions.



Battery separator

The Battery separator connects two separate Battery groups during charging. When charging is interrupted, the Batteries are separated again. The Battery separator measures voltage in both Battery groups and activates automatically.



AutoSwitch

The AutoSwitch makes it possible to supply sockets in the Vehicle both from the Inverter and from a mains outlet. The Transfer Switch automatically switches between each power source and ensures that power is not being drawn from the Battery when you connect the Vehicle to mains. The AutoSwitch also has a safety function that ensures that there is no voltage in the Input Cable when only the Inverter is in use.



Battery Charger Remote Panel

The Remote Panel can be placed in an easily accessible location for making it easier to monitor Battery and charging status.



Electrical Socket

Electrical Sockets for the DEFA PlugIn system are available in single and double versions for recessed and external mounting.



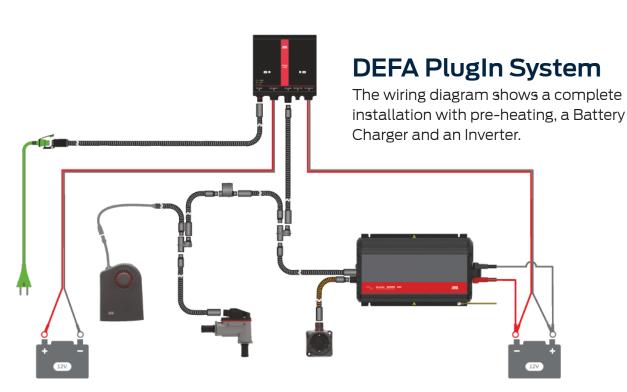
Manual Summer/Winter Switch

The Summer/Winter Switch is a manual Switch that allows Engine and Cabin Heaters to be disconnected during the summer without affecting the Charger.



MiniPlug & MiniPlug Xtreme Connection Cable & Input Cable

TDEFA's MiniPlug Cables allow for simple installation and first-rate safety and reliability. The MiniPlug Xtreme Connection Cable is designed to withstand extreme weather conditions such as very low temperatures.



Start Battery Auxiliary Battery

DEFA PlugIn system



Part number and technical specifications

	ChargerKits - Battery Charger Kits						
Part. no.	Name	Battery charger	Charge current	Input cable	Connection cable	Charging cable	
450033	ChargerKit 1210 Flex	Multicharger 1210 Flex	10A	1.5 m	2.5 m	2 m, loose	
706252	ChargerKit 1x12A	Multicharger 1x12A	1x12A	2.0 m	5.0 m	2 m, permanently installed	
706910	ChargerKit 1x12A	Multicharger 1x12A	1x12A	1.5 m	2.5 m	2 m, permanently installed	
706253	ChargerKit 2x12A	Multicharger 2x12A	2x12A	2.0 m	5.0 m	2 m, permanently installed	
706930	ChargerKit 1x20A	Multicharger 1x20A	1x20A	2.0 m	5.0 m	2 m, loose	
706931	ChargerKit 2x20A	Multicharger 2x20A	2x20A	2.0 m	5.0 m	2 m, loose	

	Battery Charger							
Part. no.	Name	Charging voltage (VDC)	Maintenance (VDC)	Current (A)	Battery size max. (Ah)	Enclosure rating (IP)	Dimensions H/W/D (mm)	Weight (kg)
450017	MultiCharger 1210 Flex	14.4	13.5	10		65	105x71x42	0.384
705200	MultiCharger 1x12A	14.4	13.6	12	150		138x98x53	1
705300	MultiCharger 2x12A	14.4	13.6	2x12	2x150		138x201x53	2
705800	MultiCharger 1x20A	14.4	13.6	20	5.0 m	44	183x9853	1.5
705900	MultiCharger 2x20A	14.4	13.6	2x20	5.0 m	44	182x190x53	3
708501	MultiCharger 1x35A	14.4	13.6	35	5.0 m		200x98x53	1,6
708502	MultiCharger 2x35A	14.4	13.6	2x35	5.0 m		200x190x53	3,3

	Inverter Kits						
Part. no.	Name	Inverter	Output	Input V DC	Cable	Electrical socket	Dimensions H/W/D (mm)
704070	Inverter Kit 1	702935	300 W				6 m (702912)
704071	Inverter Kit 2	702937	600 W		2 m (704550)	Double external (700403)	6 m (702913)
704073	Inverter Kit 4	702941	1500 W	12 V			3 III (7 32 3 13)
704074	Inverter Kit 5	702943	2000 W	,	(,01330)		6 m (709340)
711997	Inverter Kit 6	709191	1200 W				, ,

	Inverters								
Part. no.	Name	Input (V DC)	Output (V AC)	Continuous (W)	Weight (kg)	Dimensions (mm)			
702935	Inverter 300 W			300	2.6	230x151x64			
702937	Inverter 600 W			600	3.5	324x170x68			
709191	Inverter 1200 W			230 V			1200	4.7	360x225x98
709090	Inverter 1200 W incl transfer switch	12 V	230 V		1200	4.7	360x225x98		
702941	Inverter 1500 W			1500	6.2	420x223x101			
702943	Inverter 2000 W			2000	6.5	420x289x100			

DEFA PlugIn system



Part number and technical specifications

	Battery Charger Accessories					
	Part. no.	Name	Cable length	Suitable for		
** * * * * * * * * * * * * * * * * * *	705294	Battery Charger Remote Reader	5 m	1x20A/1x35A		
	705162	Battery Charger Remote Reader	5 m	2x20A/2x35A		
	705295	Battery Charger Remote Reader	10 m	1x20A/1x35A		
** * * * * * * * * * * * * * * * * * *	705163	Battery Charger Remote Reader	10 m	2x20A/2x35A		
** * * * * * * * * * * * * * * * * * *	705296	Battery Charger Remote Reader	20 m	1x20A/1x35A		
** * * * * * * * * * * * * * * * * * *	705164	Battery Charger Remote Reader	20 m	2x20A/2x35A		
	705297	Battery Charger Remote Reader	25 m	1x20A/1x35A		
	705165	Battery Charger Remote Reader	25 m	2x20A/2x35A		

	Inverter Accessories					
	Part. no.	Name	Info	Suitable for Inverter		
.0	702912	Control Panel, recessed	Cable length 6 m	300 W/600 W		
.0	702913	Control Panel, recessed	Cable length 6 m	1000 W/1500 W/ 2000 W		
	704030	Control Panel, recessed	Cable length 10 m	1000 W/1500 W/ 2000 W		
	705115	Control Panel, external	Cable length 6 m	300 W/600 W		
	705116	Control Panel, external	Cable length 6 m	1000 W/1500 W/ 2000 W		
	705117	Control Panel, external	Cable length 10 m	1000 W/1500 W/ 2000 W		
0	709340	Control Panel, recessed	Cable length 6 m	1200 W		
Mariane Marian	703697	AutoSwitch priority selector				
N I	700595	Battery Separator	100 A, max. 400 A	300 W/600 W		
*	700596	Battery Separator	200 A, max. 1000 A	1000 W/1500 W/ 2000 W		
20 Miles	707680	Battery Separator	150 A, max. 500 A	1000 W/1500 W/ 2000 W		
	700399	Electrical Socket, recessed	Stainless steel	300 W/600 W		
9	700401	Electrical Socket, external	Single	1000 W/1500 W/ 2000 W		
	700403	Electrical Socket, external	Double	1000 W/1500 W/ 2000 W		
	702779	Electrical Socket, external	Double with plugin	1200 W		
	700405	Electrical Socket, external	Main Socket double 16 A			
-	701317	Electrical Socket, recessed	Single, white			
	701316	Electrical Socket, recessed	Single, brown			
	701315	Electrical Socket, recessed	Single, grey			
	701123	Summer/Winter Switch	Manual			

DEFA PlugIn system



Article number and technical specifications

	Connection cables						
	Part. no.	Name	Length	Cable area per cord	Info		
0	460955	MiniPlug Xtreme	2.5 m	1.5 mm			
0	460957	MiniPlug Xtreme	5.0 m	1.5 mm			
0	460920	MiniPlug Connection Cable	2.5 m	1.5 mm			
0	460933	MiniPlug Connection Cable	2.5 m	1.5 mm	Angled Connector		
0	460938	MiniPlug Connection Cable	3.5 m	1.5 mm			
0	460942	MiniPlug Connection Cable	3.5 m	1.5 mm	Angled Connector		
0	460921	MiniPlug Connection Cable	5.0 m	1.5 mm			
0	460924	MiniPlug Connection Cable	10.0 m	1.5 mm			
0	460960	MiniPlug Connection Cable	2.5 m	2.5 mm	For connection to power		
0	460961	MiniPlug Connection Cable	5.0 m	2.5 mm	For connection to power		
0	460962	MiniPlug Connection Cable	10.0 m	2.5 mm	For connection to power		

Input cables					
	Part. no.	Name	Length		
9	460901	MiniPlug Input Cable	1.0 m		
9	460915	MiniPlug Input Cable	1.5 m		
9	460939	MiniPlug Input Cable	2.0 m		
	704558	MiniPlug Input Cable	1.0 m		
	704559	MiniPlug Input Cable	1.5 m		
2	704561	MiniPlug Input Cable	2.0 m		

Input cables						
	Part. no.	Name	Length			
9-	460804	MiniPlug Extension Cable	2.0 m			
9-	460809	MiniPlug Extension Cable	5.0 m			
9-	460851	MiniPlug Extension Cable	10.0 m			
0	704550	MiniPlug Extension Cable	2.0 m			
9	704553	MiniPlug Extension Cable	5.0 m			
0	704555	MiniPlug Extension Cable	10.0 m			

Need something else?

Feel free to contact us for assistance!



About DEFA

Our goal is to make people's lives easier, more efficient and more environmentally friendly. We provide Products and services that improve the way people charge, preheat and secure their Vehicles, light up their buildings and roads, control their cabins and Vehicles. We are dedicated to creating great Products and services through continuous improvement and innovation.

DEFA is a Norwegian company founded in 1946. We currently have more than 400 employees on 3 continents. Our Products and services are distributed in more than 30 countries worldwide.







EV charging

Trip log





Electrical preheating

Security & tracking





Lighting

Cabin heating & security





Mobile services

DEFA® www.defa.com

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