

DIEHL

AKO

PLATINUM

CENTRAL INVERTER C

100 CTL



100 CTL
100 CS

100 kW central inverter with and without transformer

PLATINUM

CENTRAL INVERTER C



PLATINUM 100 CS and 100 CTL

Three-phase central inverters – cost-efficient large-scale plants

Based on supremely reliable Ingeteam central inverters (more than 2000 appliances in the field), the PLATINUM C inverter series has been developed in order to combine an established technology with the inverter's all-embracing integration in a monitoring concept of the PLATINUM network.

C inverters are extraordinarily thermally stable; a range up to a maximum of +65 °C and to a maximum of +45 °C without blocking speaks for itself.

The appliances are available with a transformer (model 100 CS) as well as

without a transformer (model 100 CTL) for direct connection to a transformer station.

All inverters are designed for current market requirements Energy management (§6 EEG) and the current Medium voltage directive.

100 CTL
100 CS
η 97 %

maximum temperature range:
up to +45 °C



Technical data

Input characteristics	100 CS	100 CTL
Max. PV power	132 kW	132 kW
Max. DC power	120 kW	120 kW
PV voltage range MPPT	405 V–750 V	
Max. DC voltage	900 V	
Max. input current	286 A	
Number of string inputs	1	
Number of MPP trackers	1	
DC section switch device	DC disconnecter, integrated in the device	
Reverse voltage protection	yes	
Output characteristics		
Nominal AC power	100 kW	100 kW
Max. AC power	110 kW	110 kW
Max. AC current	187 A	340 A
Mains output voltage range	400 V _{AC} 3-phase	3 x 220 V _{AC} IT 3-phase
Internal consumption at night	0 W	
Mains frequency	50 Hz (+/- 1 Hz)	
Short-circuit proof	yes	
Interfaces		
DC input	Terminal screw	
AC output	Terminal screw	
PLATINUM network	EIA 485, 2 x RJ 45 Western Modular additional plug connector with terminal screws	
Service interface	EIA 232, 9 pole SubD female socket	
Potential-free relay contact	1 Change-over (CO) contact, max. 24 V _{AC} /2 A, plug connector with terminal screws	
Device data		
Max. conversion efficiency	> 96.0 %	> 97.0 %
European conversion efficiency	> 95.0 %	> 97.0 %
Weight	1,162 kg	560 kg
Dimensions	L 1800 x W 1000 x H 800 mm	
Ambient temperature specification	-10 °C to +65 °C	
Max. temperature at nominal power output	+45 °C	
Storage temperature	-10 °C to +65 °C	
Protection type (excluding digital interface)	IP 20 (DIN EN 60529)	
Display	full graphic LCD 170 x 76 pixels	
Datalogger integrated	memory capacity sufficient for 30 years of operation	
Circuit concept	transformer	transformerless



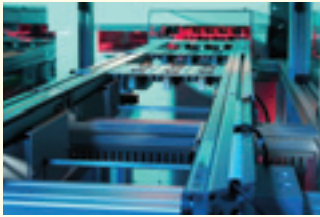
powered by
Ingeteam
97% efficiency
for your large-scale plant



The clearly arranged full graphic display allows quick checking of the appliance's power.

The exceedingly high-capacity PLATINUM datalogger stores data for up to 30 years.

The gateway to the world – the PLATINUM network. With separately available PLATINUM monitoring devices, you can integrate the inverters in your plant monitoring system via the EIA 485 interface.



Diehl AKO

is an internationally leading electronics company which specializes in the development and production of industrial control and regulating systems.

As the market leader, every year we manufacture more than 2 million frequency inverters for power drive systems alone.

Innovation & quality

Diehl AKO sets standards for the development of **innovative concepts** for electronic systems and appliances by established know-how, the selection of component parts and the latest technologies of excellent production and test engineering. From the electronics to the complete appliance, the manufacturing process of our products is certified according to

the **Quality and environment standards ISO 9001-2000 and ISO 14000**. All **PLATINUM inverters** are rated „**Made in Germany**“. Owing to our **PLATINUM inverters'** excellent industrial quality, we offer not only the standard 5-year guarantee, but also an optional warranty extension to 20 years.



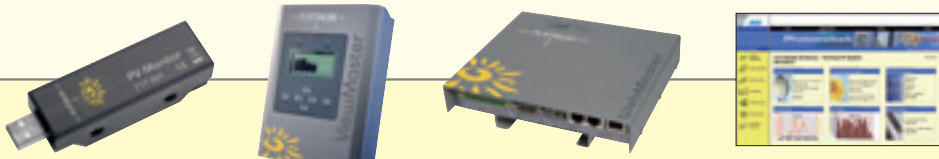
Environmental protection

*Environmental protection has top priority for **Diehl AKO**. In order to live up to this standard, **Diehl AKO** continually improves manufacturing processes and optimizes the use of resource-friendly materials. The products are manufactured in compliance with the new RoHS standard and the environment standard DIN EN 14001. **PLATINUM inverters** were the first appliances on the market to be produced using **lead-free** technology.*



PLATINUM plant monitoring –

much more than just access to your data.



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