



Fischer Panda

Thirty years lasting success in
marine propulsion &
energy solutions

by Mr. Stephan Backes





Fischer Panda

Agenda:

1. Fischer Panda 33 years successful power
2. New energy concepts Innovation & communication with inverter technology
3. Whisperprop propulsion The future of hybrid propulsion systems just begins
4. Summary

33 years successful power & energy worldwide



1977 Established in Paderborn, Germany



Manufacturer of compact and quiet
generators, energy and aircondition
systems & hybrid propulsion



Trade – company name: Fischer Panda



Worldwide distributors and partners in more
than 70 countries



Over 200 generators in product range



Performance range from 2,5 to 200 kW



Total Quality System ISO 9001:2008



The complete energy solution for everyone !

Basic generators

Panda s-series

Premium generators

Panda Asynchron generators

Panda inverter generators

Fischer Panda
Germany

Whisperprop electric drives

Hybrid 48V – 240V DC

Battery based

Energy solutions

Hybrid systems

Switch-over boxes

Innovative & Extrem compact & Silent Solutions

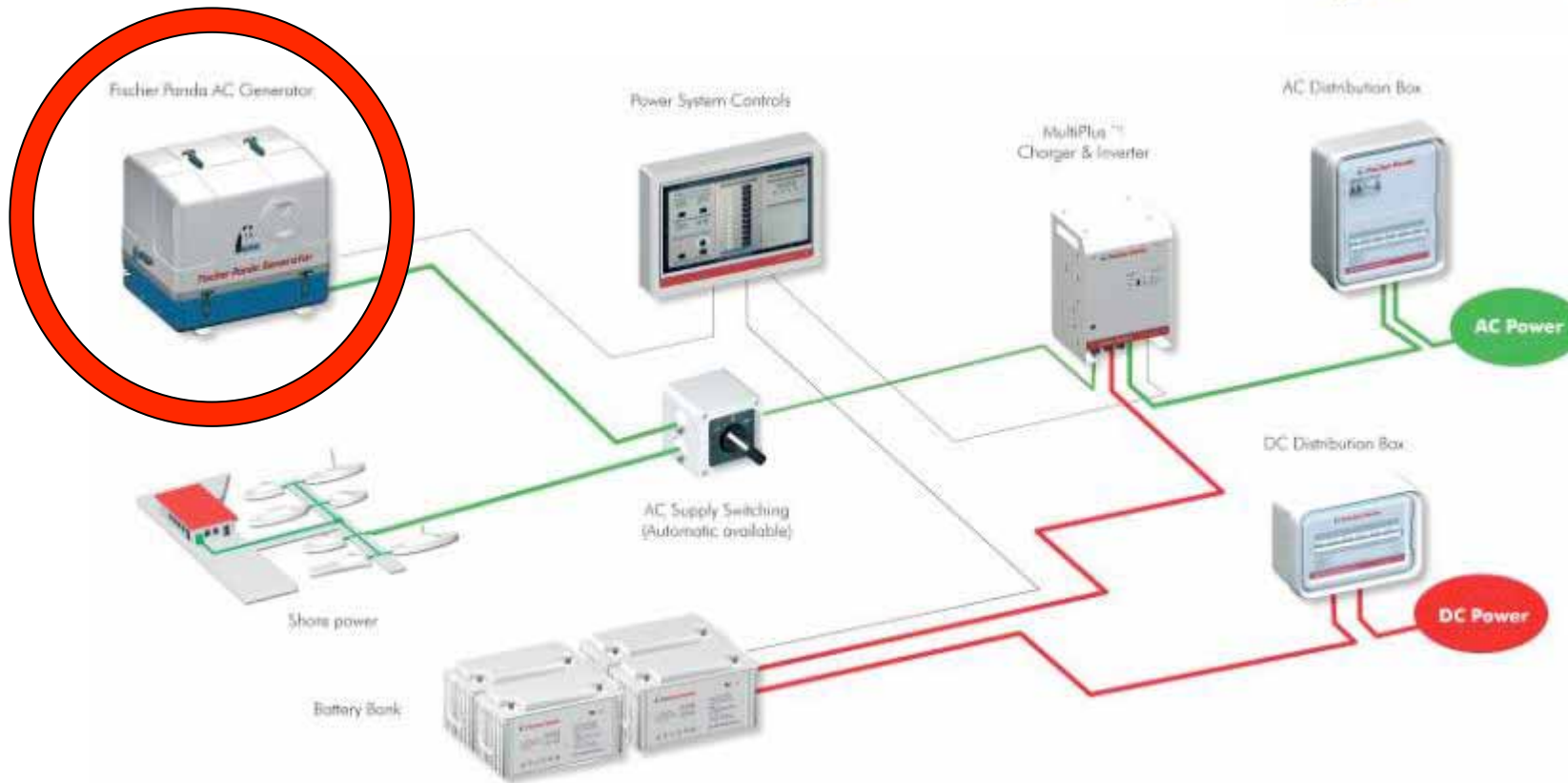
Panda 5000i / 8000i / 15000i / 45i



- 5 KVA / 8KVA / 15KVA variable speed generator – 45KVA on the METS !
- Self-regulating engine speed system to suit load
- Extreme stable voltage and frequency
- High starting capabilities for handling inductive loads
- Super silent sound cover
- Low weight (-30%) / less space (-25%)
- variable maintenance interval
- Controller CAN capable – communication with other interfaces

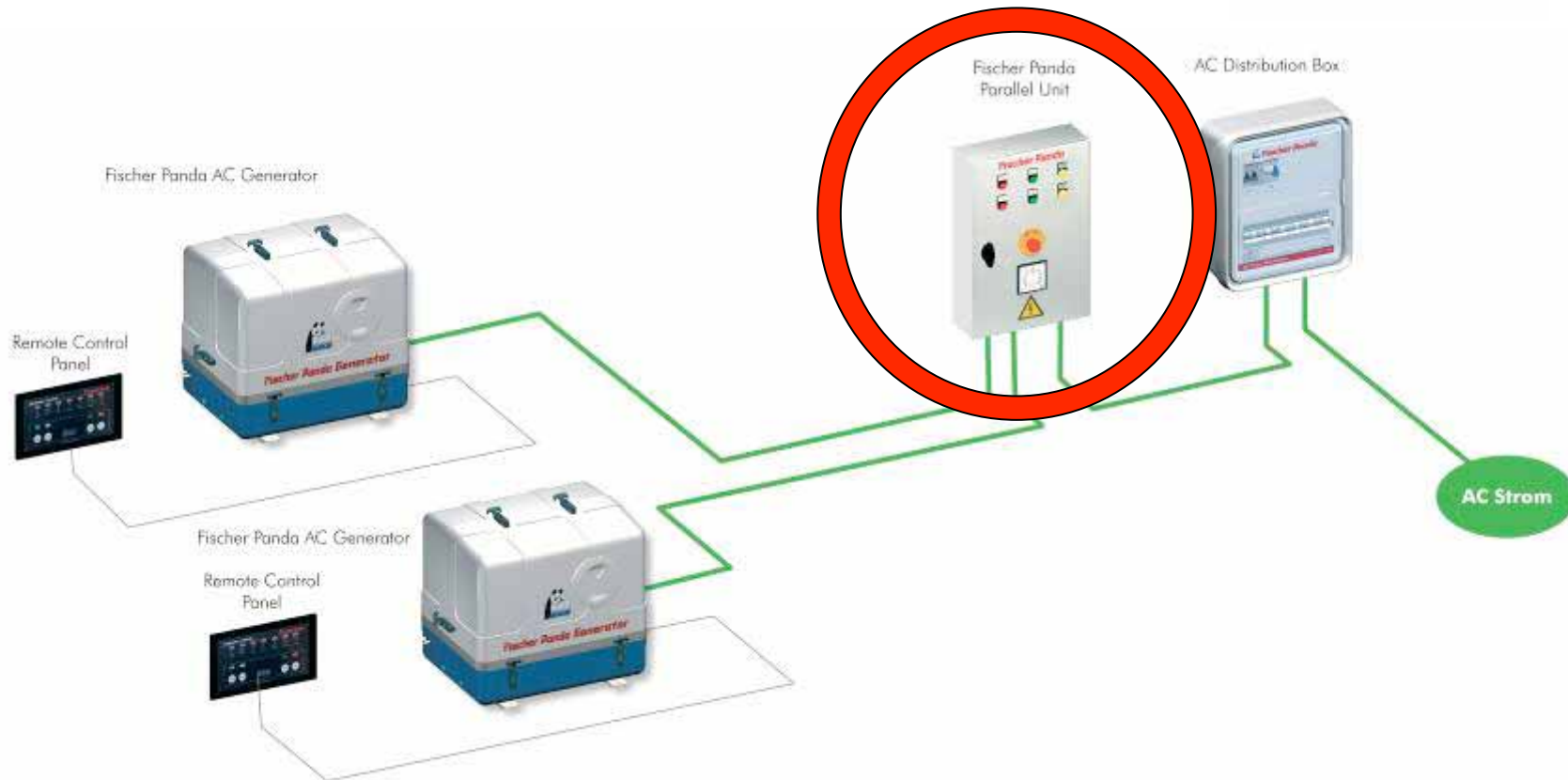
Intelligent System Concepts

The classic Hybrid-powersystem with Fischer Panda generator !



Intelligent System Concepts

The professional powersystem with two parallel Fischer Panda generators !



The challenges for the future hybrid propulsion

Challenge Design

- Innovative
- Modular
- Multifunctional
- Redundant
- Connection to other communication systems (CAN,GPRS)
- Economical

Challenge Components

- Save & reliable
- Intelligent
- High efficient drive motors
- Durable
- Ecological

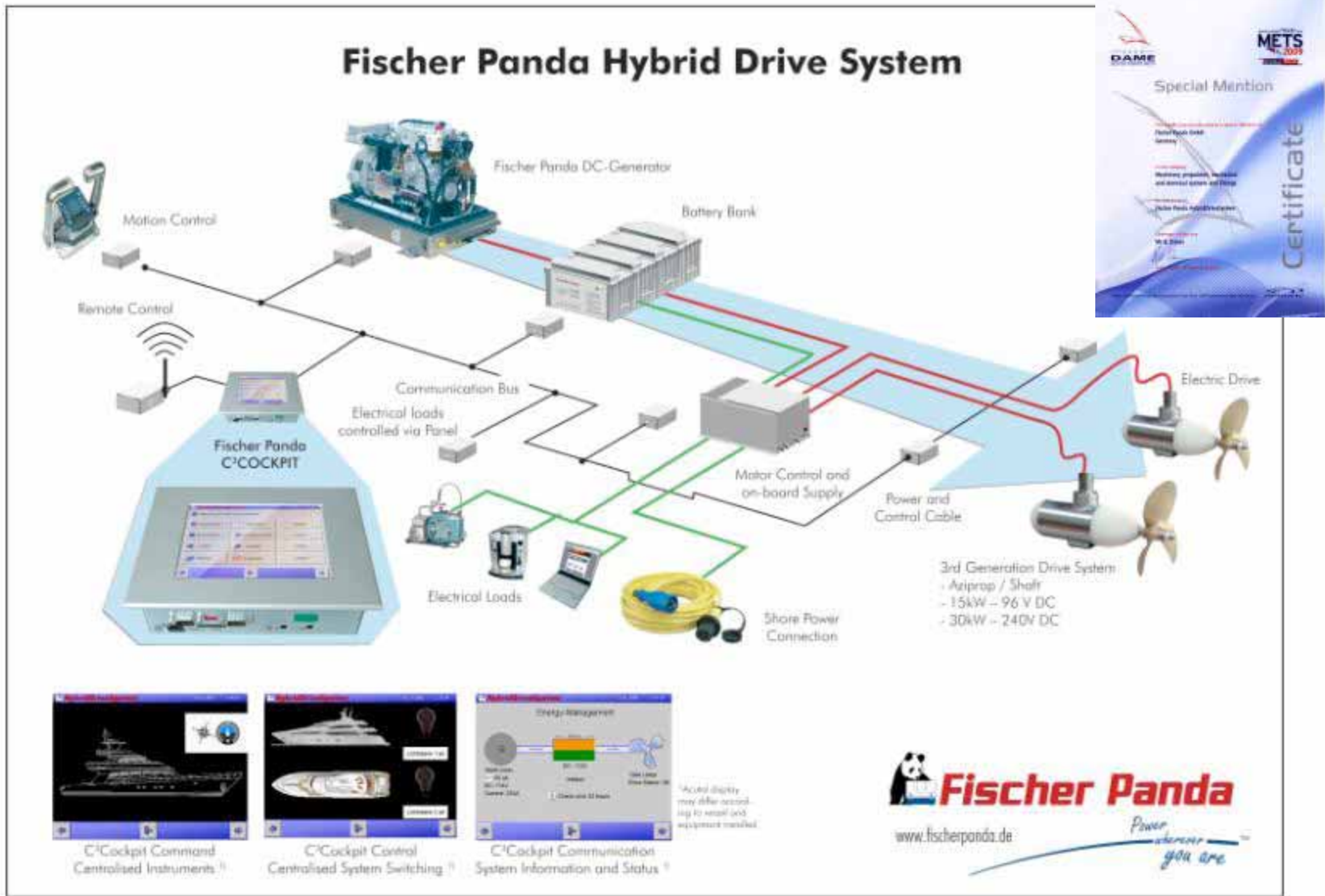


Challenge Power

- Integrated On-board power (230V and 24V)
- Power by batteries, generator or shore
- For monohull, Catamaran & Trimaran
- Battery based system

Fischer Panda – 33 years successful power
 Hybrid propulsion solutions

New generator concepts
 Summary



SUMMARY

1. The new energy demand requires innovative and efficient solutions
2. More and more energy is needed on future boats
3. Hybrid battery based systems are the new „green“ alternative for on-board power supply & propulsion
4. Innovative and load-dependend generators will substitute the old fixed-speed technology
5. New design concepts will be based on modular & intelligent electrical power & propulsion systems



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Thank you for your attention !



Power – wherever you are TM