

A photograph of an industrial power plant at sunset. The sky is a deep orange, and the sun is a bright yellow circle positioned between two large cooling towers. The plant's structures, including several tall chimneys and complex piping, are silhouetted against the bright sky. The sun's reflection is visible on the water in the foreground.

SMART GRID POWER SOLUTIONS

POWER PLANT & POWER TRANSMISSION & DISTRIBUTION

AEG
POWER SOLUTIONS

Protect RCS - Rectifier, Charger and DC System



Main Features:

- Heavy Duty Design
- Proven microprocessor-controlled thyristor technology
- Building block modular design
- High availability (internal redundancy N+1)
- Built-in Intelligent Battery Management
- **Robust Design – 20 years expected lifetime**

Technical Details:

- Input Voltage: 1 phase 230VAC or 3 phase 400VAC
- DC Voltage: 24/48/110/125/220VDC
- Rating: 25-1000A

Notes:

- High MTBF and low MTTR
- Built-in protection
- Digital processing and setting of all parameters
- Monitoring of all parameters on the front panel display
- Temperature-compensated charge voltage regulation
- Manual or automatic high rate charge
- Parallel operation
- Ease of installation, start-up & maintenance
- International service support
- Industrial standards: EN50178, IEC62040-1, IEC62040-2, IEC61000-6-2, IEC61000-6-4
- Certification/Approval: Shell DEP 33.65.50.31 , Type test acc to IEC60146-1-1 by KEMA

Protect MIP - Modular switch-mode industrial applications rectifier



Main Features:

- Heavy Duty Design
- Modular switch mode technology
- High availability (internal redundancy N+1)
- Modular, Hot-swappable rectifier modules
- Flexibility of scalable power
- **Robust Design – 20 years expected lifetime**

Technical Details:

- Input Voltage: 1 phase 230VAC or 3 phase 400VAC
- DC Voltage: 24/48/110//220VDC
- Rating: 10-1000A

Notes:

- Compact design and light weight
- Built-in Intelligent Battery Management
- High power density
- Sinusoidal input current and low harmonics to reduce installations and operating costs
- High efficiency to reduce operating costs
- Low MTTR due to modular design
- Low voltage ripple to prolong battery life time
- Reliable operation due to advance protection (input, output, temperature, current, power) and high MTBF
- Control and alarm functions for remote management
- Simplicity of use
- Easy maintenance

Protect 8



Mains Features:

- Stand Alone design
- Thyristor based Rectifier
- IGBT Inverter
- Low input THDI with Filter
- up to 8 Systems in parallel
- **Robust Design – 20 years expected lifetime**

Technical Details:

- Input Voltage: 400VAC (380V, 415V) – UL voltage on request
- **DC Voltage: 220 & 384VDC**
- Input Power Factor: 0.84 at full load
- Input THDI: <8% with 12Pulse rectifier and PFC
- Output Power Factor: 0.8
- Efficiency normal mode: 92% - Eco mode available as an option

Notes:

- Customizable to customer requirements
- **Input Transformer – Full Galvanic Isolation**
- Inverter Output Transformer
- Industrial Grade Technical Design
- Easy Maintenance, main components accessible from the front door
- up to 50 degree C Operation
- Adapted for harsh environment (Temp, Humidity, Dust, Sand etc...)
- **IGBT rectifier will be available in 2012**

Transokraft INV 1 and INV 3



Main Features:

- Analog Technology
- High Efficiency
- Fans in redundant configuration
- Fast dynamic response
- Short circuit proof, constant current source, high short circuit resistance
- Fast overload response
- Offers high startup current
- 100% asymmetric load
- KTA design including seismic test certificate

Technical Details:

- **DC Voltage:** 220VDC
- Output Power Factor: 0.8
- Efficiency normal mode: 94% - typical
- 1Ph from 10 to 80kVA
- 3Ph from 30 to 220kVA

Highlights:

- KTA1401 Compliant (German Nuclear Power Plants)
- Seismic tests following IEC60068-28
- Industrial Grade Technical Design
- Easy Maintenance, main components accessible from the front door
- up to 50 degree C Operation
- Adapted for very harsh environment (Temp, Humidity, Dust, Sand etc...)

Protect 8 INV 1 and INV 3



Main Features:

- Stand Alone inverter design
- IGBT Inverter
- Low input THDI with Filter
- up to 8 Systems in parallel
- Robust Design – 20 years expected lifetime

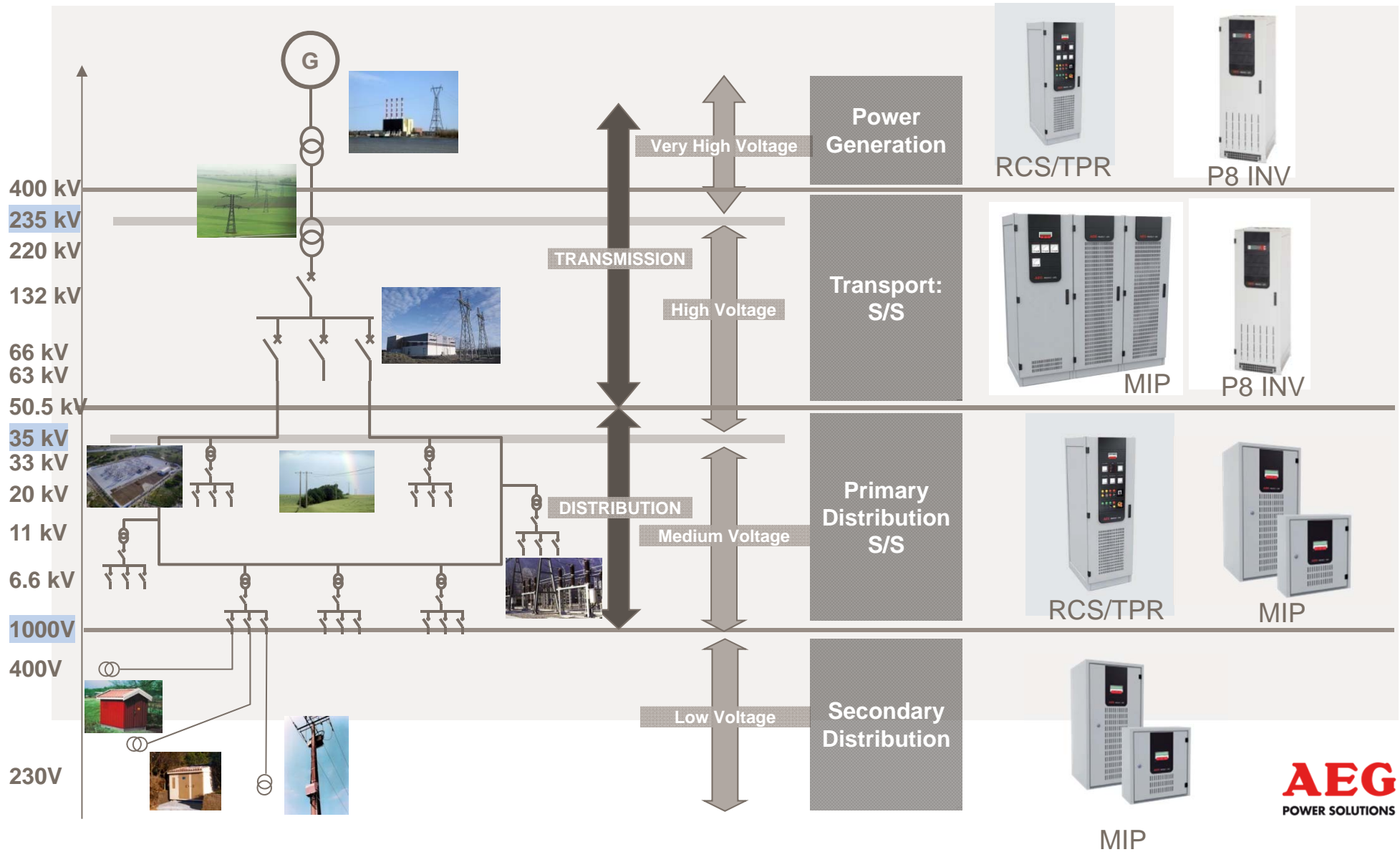
Technical Details:

- **DC Voltage:** 110/125/220VDC
- **Output Power Factor:** 0.8
- **Efficiency normal mode:** 94% - Eco mode available as an option
- **From 10 to 120kVA**

Highlights:

- Customizable to customer requirements
- Inverter Output Transformer
- Industrial Grade Technical Design
- Easy Maintenance, main components accessible from the front door
- up to 50 degree C Operation
- Adapted for harsh environment (Temp, Humidity, Dust, Sand etc...)

AEG Power Generation and T&D offering



MIP

PROFITEC SN 1 – Software-free rectifier



Main Features:

- 100 % analog controlled charger
- No software or programmable devices
- Seismic-proofed technology
- Forced or natural air cooling
- Secure DC supply in any case of input voltage variation
- High availability / MTBF
- Design lifetime >30 years
- Designed for use in harsh environments
- Easy maintenance via diagnostic device
- 160 % input overvoltage threshold

Technical Details:

- Voltage: 380 / 400 / 415 / 500 / 690 V 3-phase
- DC Voltage: 24/60/110/220VDC
- Rating: 40-2500A

Highlights:

Many options, such as:

- Overvoltage limiter (Forsmark-event)
- Parallel mode (for output current extension or redundancy)
- Diagnostic device for annual checks as required by NPPs
- Forced cooling for ambient temperatures up to 50 °without de-rating
- Design as +/- system
- Higher IP rating
- Battery feeder cubicles, seismic-proofed
- Battery symmetry monitoring
- Battery charging circuit monitoring

SOLAR POWER PLANT – AEG PS SMART GRID POWER SOLUTIONS



Protect RCS



Transokraft



6 POWER PLANT



P8 INV

Contribution to power continuity and grid stability:

- High Efficiency conversion to reduce power losses
- Clean Sinewave to eliminate Network voltage & frequency disturbances
- Operate in harsh environment
- Industrial Grade Design
- 20 years lifetime expectation
- High Reliability / High availability
- Customisation

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