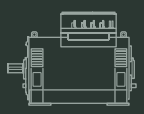
YOU GOT THE
POWER.

ALTERNATORS

HYDRO POWER Synchronous Alternators



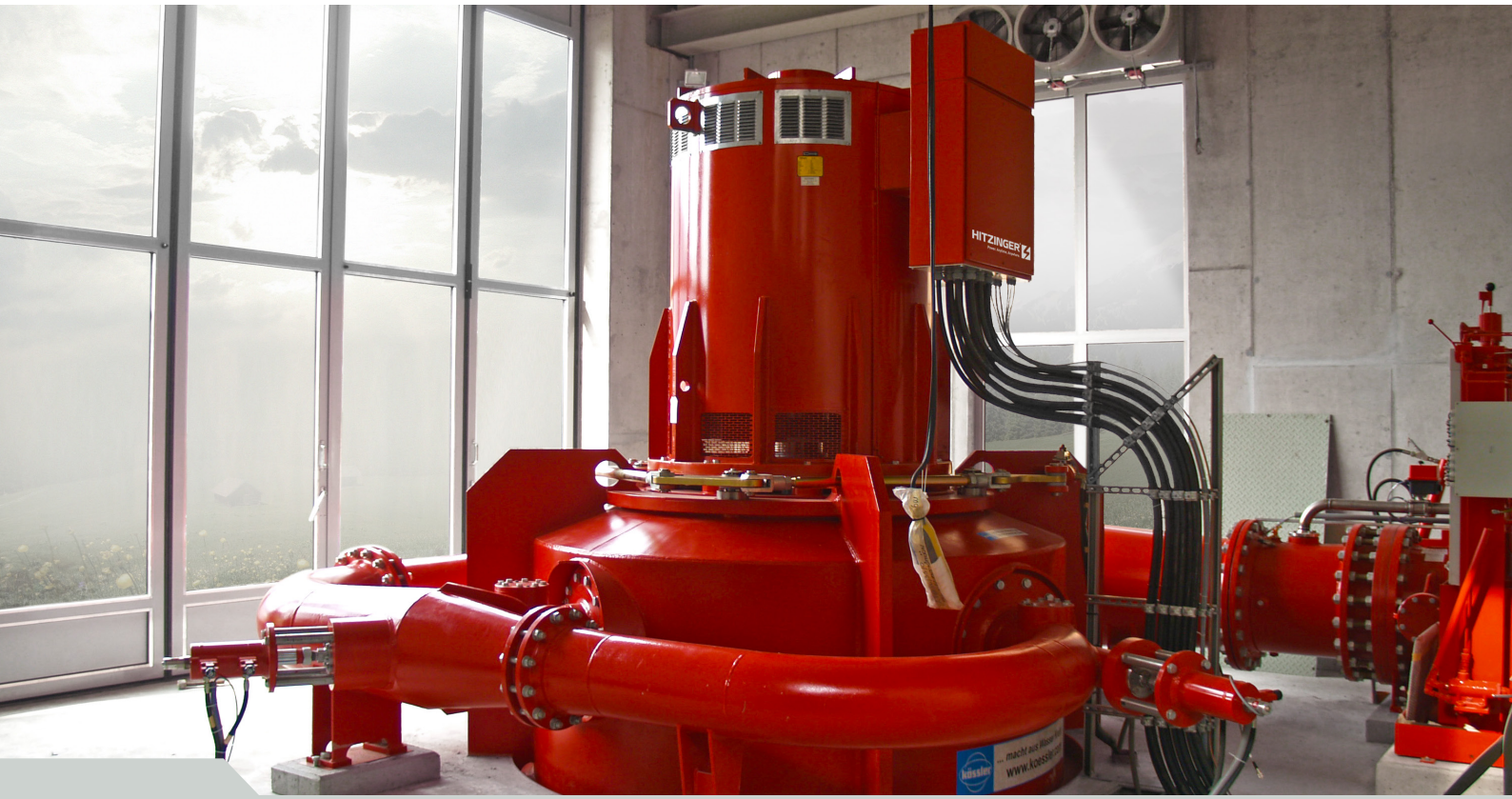
HITZINGER®
Power. Anytime. Anywhere.

HYDRO POWER

SYNCHRONOUS ALTERNATORS

Hitzinger has been designing and manufacturing synchronous alternators for over 60 years, always keeping a step ahead. Secure investments in research and development are documented in a variety of patents, ensuring reliable, practically-designed, trend-setting alternators.

Maximum flexibility in terms of design and features meeting the highest standards for operating safety, efficiency and ecology make Hitzinger synchronous alternators the product of choice for small hydroelectric plants. Hitzinger alternators have faced the roughest, most adverse weather, mechanical and electric conditions worldwide and always excelled.



MODELS
→ Horizontal model (B3)
→ Vertical model (V1, V5, V6)

POWER CLASS
→ 70 to 3700 kVA

ENVIRONMENT
→ Ambient temperature:
-30° C to +45° C
→ Relative humidity
up to 95 %

TECHNICAL SPECIFICATIONS
→ Voltage: to 6.6 kVA

ROTATION SPEED
→ 214 to 1500 RPM

OVERSPEED
→ Up to 3.5 X rated speed

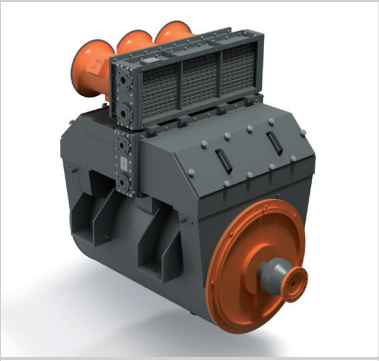
PROTECTION CLASS
→ IP 21 to IP 55

NEW POWER

Sustainably guaranteed performance for your renewable energy. Hitzinger alternators boast maximum efficiency, flexibility and safety. Our experience serves as a guarantee of pioneering technology offering the ultimate in performance and environmental-friendliness.

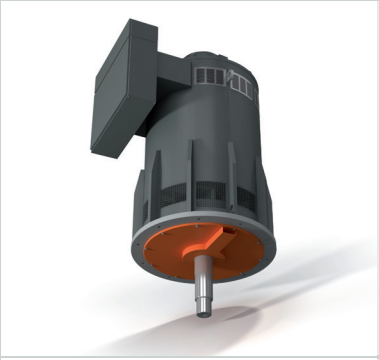
Fully satisfying custom requirements is our standard and ensures independence and a secure power supply while operating at top efficiency.

From task-defining to idea, from planning to design, from operation to maintenance: our focus is on developing sustainable, custom solutions which are constantly redefining „state-of-the-art“.



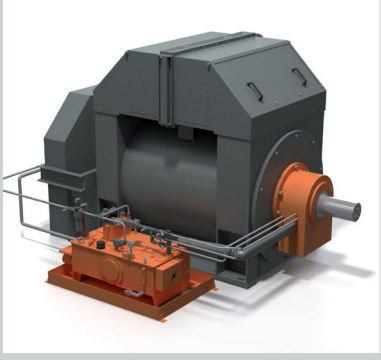
MAXIMUM SAFETY

Every component is custom dimensioned to prevent damage caused by short-circuits, reclosing and improper synchronisation. Maximum operating safety and a secure supply are guaranteed.



TOP EFFICIENCY

Efficiency is the cornerstone of reliable performance. Numerous protection and monitoring systems ensure minimum maintenance and fault-free continuous operation.



OUTSTANDING FLEXIBILITY

Custom-tailored developments ensure long-term performance. Every alternator is one of a kind. Individual specifications are decisive for us in every phase of design and construction.

SIMPLY WELL THOUGHT OUT

Efficiency, safety and maximum flexibility are our top priorities when it comes to development. We rate the power of innovation according to the benefit it offers the user. More power with lower costs and optimal handling.

ECONOMIC HYDRO POWER

COMPACT
- → Space-saving design
- → Minimum number of components
- → Low construction costs
- → Low investment costs

RELIABLE
- → Rugged construction
- → Regulator system for high sustained short-circuit current
- → Enhanced resistance to environmental factors thanks to extra insulation technology

ENVIRONMENTALLY FRIENDLY
- → Top efficiency
- → Maximum supply security
- → 100% renewable energy

SAFETY
- → Custom component sizing
- → Stringent quality controls
- → Low-maintenance

EFFICIENCY
- → Low loss transformation of primary energy into electric energy
- → Flexible and practically-designed construction
- → Easy serviceability

FLEXIBILITY
- → Custom-tailored solutions
- → Flexible overall concept
- → Holistic development

TECHNICAL SPECIFICATIONS

SYNCHRONOUS LOW VOLTAGE 50 HZ													
	Power: in kVA at 40° C									Voltage: up to 1000 V			
Number of Poles:	4	6	8	10	12	14	16	18	20	22	24	26	28
Rotation Speed:	1500	1000	750	600	500	429	375	333	300	273	250	231	214
Size:													
SG 043	135	110											
SG 050	260	160	120	100	80								
SG 060	670	380	260	210	160								
SG 070	1100	810	600	420	390	300	220						
SG 090	2000	1600	1100	1100	900	600	470	400	350	300	280	260	240
SG 110	3700	3000	2700	2200	1750	1500	1100	900	730	620	570	490	450
SG 136			4000	3350	2700	2300	1700	1400	1100	950	850	750	690

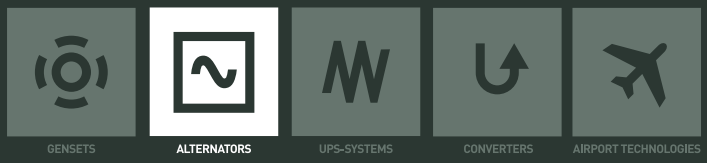
SYNCHRONOUS LOW VOLTAGE 60 HZ													
	Power: in kVA at 40° C									Voltage: up to 1000 V			
Number of Poles:	4	6	8	10	12	14	16	18	20	22	24	26	28
Rotation Speed:	1800	1200	900	720	600	514	450	400	360	327	300	277	257
Size:													
SG 043	160	130											
SG 050	310	190	140	120	95								
SG 060	800	460	310	250	190								
SG 070	1320	970	720	500	470	360	260						
SG 090	2400	1920	1320	1320	1080	720	560	480	420	360	340	310	290
SG 110	4400	3600	3240	2640	2100	1800	1320	1080	880	740	680	590	540
SG 136			4800	4020	3240	2760	2040	1680	1320	1140	1020	900	830

SYNCHRONOUS MEDIUM VOLTAGE 50 HZ					
	Power: in kVA at 40° C			Voltage: up to 6600 V	
Number of Poles:	4	6	8	10	12
Rotation Speed:	1500	1000	750	600	500
Size:					
SG 090	1250	1000	700	600	500
SG 110	3000	2000	1700	1400	1250
SG 136			2800	2300	2000

SYNCHRONOUS MEDIUM VOLTAGE 60 HZ					
	Power: in kVA at 40° C			Voltage: up to 6600 V	
Number of Poles:	4	6	8	10	12
Rotation Speed:	1800	1200	900	720	600
Size:					
SG 090	1500	1200	840	720	600
SG 110	3600	2400	1040	1680	1500
SG 136			3360	2760	2400

FOR OVER 60 YEARS, QUALITY, EFFICIENCY, AND DURABILITY HAVE BEEN THE FOUNDATIONS OF OUR SUCCESS. COUNTLESS INDUSTRIES THROUGHOUT THE WORLD PLACE THEIR TRUST IN US TO PROTECT AND POWER THEIR BUSINESSES AT EVERY MOMENT OF EVERY DAY. AS A WORLD LEADER IN TAILOR-MADE POWER SOLUTIONS, WE ARE YOUR PARTNER FOR INNOVATION, VALUE AND SERVICE. WE ENSURE THAT YOU'VE GOT THE POWER.

POWER. ANYTIME. ANYWHERE.



HITZINGER GmbH
Helmholtzstraße 56
4021 Linz, P.O. Box 5000
Austria

Phone: +43 732 381681-0
Fax: +43 732 381681-5
Mail: office@hitzinger.at
Internet: www.hitzinger.at

HITZINGER (UK) Ltd.
50 Churchill Square
Kings Hill, West Malling,
KENT, ME 19 4YU
United Kingdom

Phone: +44 1732 529 641
Fax: +44 1732 529 642
Mail: info@hitzinger.net
Internet: www.hitzinger.net

HITZINGER RO Singapore
3 Loyang Way 4
506956 Singapore
Singapore

Phone: +65 31100042
Fax: +65 62141217
Mobile: +65 96738573
Mail: jochen.philipp@hitzinger.at
Internet: www.hitzinger.at

VAT Identification No. ATU22982002
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HP_01_en_062012 Technical specifications and illustrations correspond with those at the time of printing. Subject to change.