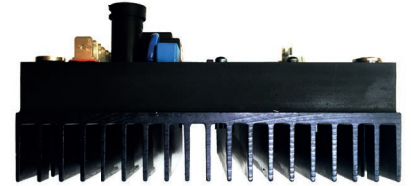# AVR COMPACT

Voltage regulator for generators

The **AVR COMPACT** is a new, robust and an easy to use automatic voltage regulator suitable for single and three phase applications.

The **AVR COMPACT** has a separate measuring and power supply input AC. This product is suitable for parallel operations.

TOP VIEW

SIDE VIEW

FEATURES & SPECIFICATIONS

BENEFITS

The AVR COMPACT offers a robust and quality product thank to an European standard manufacturing experience. The AVR COMPACT offers you an easy to use product for constant voltage control, or voltage droop for parallel operation or external control to be connected on the CRE Technology paralleling products.

COMPATIBILITY

The AVR compact can be used for a large alternator architecture:
• $115V_{AC}$ sensing
• $200V_{AC}$ sensing
• $230V_{AC}$ sensing
• $400V_{AC}$ sensing
• Auxiliary supply
• PMG supply Voltage

ELECTRICAL PROTECTIONS

• Underspeed : This function on AVR Compact drops the generator voltage relative to drop of the generator frequency.
• Overcurrent : The AVR Compact is protected by a 10A time delay fuse in the AVR supply line. This fuse also protect the generator exciter field against damage caused by over-excitation.

COMPATIBILITY FOR REPLACEMENT

Thanks to adaptability in term of power supply, voltage sensing and a large current/Voltage output, the AVR COMPACT can be provide to replace this branded AVR:
• ANSALDO MARELLI
• AVK
• BASLER
• LEROY SOMER
• MARATHON

• MECC ALTE SPA
• NEWAGE STAMFORD
• SIEMENS
• UNELEC
• WEMP
For complete list and details of these branded replacement, please contact CRE Technology or distributors.

SYNCHRONIZATION

The S-T external control input can be used to control synchronization on Voltage (U=U), by Resistors or potentiometer or $0-10V_{DC}$ input.

CURRENT, VOLTAGE AND FREQUENCY

• 0-230-400: Voltage sensing input from 115 to $400V_{AC}$.
• S1-S2: CT droop in phase V: 0,5 or 1 Amps (5VA).
• LH1-LH2: Supply Voltage $100-295V_{AC}$ (50-100 Hz).

INPUTS, OUTPUTS

• DIP SWITCH inputs: 4 selections: ST control, Sensing voltage, I action and underspeed.
• J1 inputs: CT droop selection. Shunt: CT = 1A. No shunt: CT: 0,5A.
• S-T inputs: 10Kohms input, or $0-10V_{DC}$ isolated input.
• +/- output: max 35% of V supply input (LH1-LH2) , 12,5 amps, R> 2 ohms.

COMMUNICATION PORT

1 communication port for factory settings.

ENVIRONMENT

• Operating temperature: -40°C...+70°C (-40°F...158°F).
• Storage temperature: -40°C ...+70°C (-40°F …158°F).
• Humidity: 95% non-condensing.

CERTIFICATIONS

• European Union Directives : EC EMC Directive 2014/30/EC, EC Machine Directive 89/392/EC.
• Low voltage Directive 2015/35/EEC, EN50124 :2001, EN50082-2 :1996, EN 50092-1 :1996, EN61000-4-5: 2014.

OTHER

• Terminals: FASTON 6.3.
• Provided with a mounting kit: springs, screws and bolts.

Part number: A65Z1

RELATED PRODUCTS & CABLES

A53ZX GENSYS 2.0 RANGE
A56Z0 GENSYS COMPACT PRIME
A56Z1 GENSYS COMPACT MAINS
A51VX UNIGEN 2.0 RANGE

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Phone : + 33 (0)4 .92.38.86.82 - www.cretechnology.com - info@cretechnology.com

AVR COMPACT_SALES DOCUMENTATION_EN_A2018

AVR COMPACT

Voltage regulator for generators

Part number: A65Z1

RELATED PRODUCTS

The **GENSYS COMPACT MAINS** is used on standalone genset in mains paralleling application.

GENSYS COMPACT MAINS range offers flexibility and time saving thanks to its simple wiring, all features included (no option), and easy engineering & programming.

HARDWARE & DISPLAY

GENSYS COMPACT MAINS is available in both switchboard panel mounted version with display, or core base mounted version. And compatible with i4GEN touchscreen color display.

SOFTWARE

GENSYS COMPACT MAINS is configurable from its front panel display, from i4GEN, or through the free CRE PC software.

The **GENSYS COMPACT PRIME** is made for gensets used in power plant applications requiring synchronizing, active and reactive load sharing and electrical/mechanical protections.
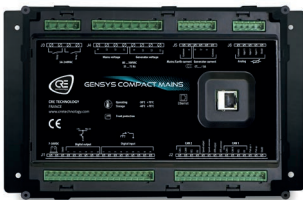
GENSYS COMPACT PRIME offers flexibility and time saving thanks to its simple wiring, all features included (no option), and easy engineering & programming.

HARDWARE & DISPLAY

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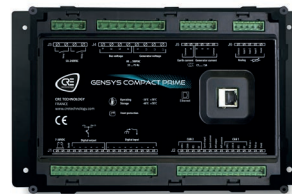
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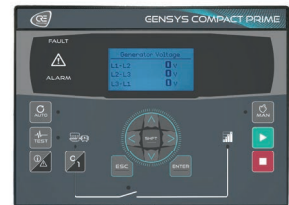
CORE BASE MOUNTED VERSION

SWITCHBOARD MOUNTED VERSION WITH DISPLAY

CORE BASE MOUNTED VERSION

SWITCHBOARD MOUNTED VERSION WITH DISPLAY

WIRING DIAGRAM

	2PH 2 wires	2PH 2 wires	1PH 2 wires		
	V sensing 0-230-400	Supply voltage LH1-LH2	S1-S2 CT Droop		
	AVR COMPACT Réf A65Z1 CE			J1	Shunt
		ANA IN S - T		ANA Exciter output DC	