![Lovato electric]
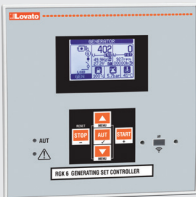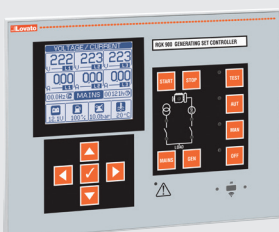
Scan to watch video

Automatic mains failure (AMF) gen-set controllers

• Engine protection
• Programmable inputs and outputs / alarm properties
• Automatic starting of generator and load switching to stand-by emergency source in case of mains failure
• Supervision in "open transition" for contactors, motorised circuit breakers and changeover switches

type	digital inputs	digital outputs	description
RGK600 series		*(IP40)*	*144 x 144 mm panel mounting*

- Universal supply: 12/24 VDC
- Display: Graphic LCD 128 x 80 pixels with backlight
- Measurement voltage: 50…576 VAC / Rated voltage: 480 VAC L-L
- Current Input: 3PH, /5A or /1A
- Single, two and three phase voltage control - L1-L2-L3-N
- IR programming port on front panel for communication with PC
- 3 analog resistance input for oil pressure, engine temperature or fuel level control
- Customisable alarm text *(8 alarms)*
- Non-volatile memory for event storage
- Modbus-RTU and Modbus-ASCII protocols *(RGK610)*

type	digital inputs	digital outputs	description
RGK600	4	6	AMF gen-set controller
			with "W" or magnetic "pickup"for engine speed reading (no CANbus)
RGK601	4	6	AMF gen-set controller
			with CANbus-J11939 (no "W" or magnetic "pickup")
RGK610✱	4	6	AMF gen-set controller
			with "W" or magnetic "pickup"for engine speed reading (no CANbus)

✱ *1 slot to accept plug-in expansion modules **EXP1010/1011/1012,** see page **F-7***

type	digital inputs	digital outputs	description
RGK700 series		*(IP65)*	*180 x 240 mm panel mounting*

*As above **RGK600** but with following additional features:*
- Measurement voltage: 50…720 VAC / Rated voltage: 480 VAC L-L
– Rated voltage: RGK700 - 600 VAC L-L / RGK750 - 480 VAC L-L
- IR programming port on front panel for communication with PC
- PLC logic for inputs, outputs and internal status
- Expansion bus with 2 slots for **EXP...** series expansion modules *(RGK 750 only)*
- Calendar-clock (RTC) with backup reserve energy

type	digital inputs	digital outputs	description
RGK700	6	7	AMF grey gen-set controller
RGK750	6	7	AMF black gen-set controller

type	digital inputs	digital outputs	description
RGK800 series		*(IP65)*	*180 x 240 mm panel mounting*

*As above **RGK750** but with following additional features:*
- RS485 communication (+ CANBUS)
- Neutral current measurement range: 0.050…6A or 1.2A
- 400Hz frequency support
- 1 programmable analog input
- Current leakage control
- Expandable with rear plug-in expansion *(up to 3)* modules *(see page F -7)*

type	digital inputs	digital outputs	description
RGK800	8	10	full featured AMF gen-set controller

Paralleling controllers for mains - mains and generator - generator

• Engine protection
• Mains-generator "closed transition" synchronising
• Mains-generator load sharing with source peak demand control
• Generator paralleling supervision *(island mode with load sharing)*

type	digital inputs	digital outputs	description
RGK900 series		*(IP65)*	*180 x 240 mm panel mounting*

*As above **RGK800** but with following additional features:*
- Voltage measurement range: 50-720 VAC / Rated voltage: 480 VAC L-L
- Frequency measurement range: 45…65Hz or 360…440Hz
- Display: Graphic LCD 128 x 112 pixels with backlight
- Customisable alarm text *(16 alarms)*
- Modbus-RTU, Modbus-ASCII and Modbus-TCP communication protocols
- 2 analog outputs for engine speed control *(governor)* / voltage regulator (AVR)
- Built-in buzzer, multi-level passwords, sleep function

type	digital inputs	digital outputs	description
RGK900SA	13	10	full featured stand alone gen-set controller
RGK900	13	10	mains-generator paralleling control

Control of mains, automatic transfer switching and paralleling on multiple generators controlled by *RGK900SA*

type	digital inputs	digital outputs	description
RGK900MC	13	10	Mains-ATS *(Automatic Transfer Switching)* controller

RGK600

new

RGK750

RGK900