

Manufacturer Model Number	Basler Electric	Kohler Power Systems	Dynagen	DeepSea	Woodward	ComAp	CAT	Deif	Huegli-Tech
	DGC-2020	DecisionMaker 550	GSC400	8610	EasyGen 3200 (P2)	IntelLite AMF-25	EMCP 4.4	GPC-3	DST4602
FEATURES									
Pre-alarms/Warnings									
Low DC Voltage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High DC Voltage	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
Weak Battery	Yes	Yes	N/A	N/A	N/A	Via Programmable input	N/A	Yes	N/A
Battery Charger Failure	Yes	Yes	N/A	Yes	Yes	Via Programmable input	Yes	Yes	N/A
Fuel Level Sender Failure	Yes	N/A	N/A	N/A	N/A	Via Programmable input	N/A	Yes	Yes
Switch Not in Auto Mode	Yes	Yes	N/A	N/A	N/A	Via Programmable input	Yes	N/A	Yes
Low Oil Pressure	Yes	Yes	Yes	Yes	Yes	Via Programmable input	Yes	Yes	N/A
Oil Level	Via Programmable Inputs	via J1939	Yes	N/A	N/A	Via Programmable input	N/A	Yes	Yes
High Coolant Temperature	Yes	Yes	Yes	N/A	N/A	Via Programmable input	Yes	Yes	Yes
Low Coolant Temperature	Yes	Yes	Yes	N/A	N/A	Via Programmable input	N/A	Yes	N/A
High Oil Temperature	Via Programmable Inputs	Yes	N/A	N/A	N/A	Via Programmable input	N/A	N/A	Yes
Low Fuel Level	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Fuel Level	Yes	No	N/A	N/A	N/A	Via Programmable input	N/A	Yes	Yes
Fuel Leak	Yes	N/A	Yes	N/A	N/A	Via Programmable input	N/A	N/A	Yes
Low Coolant Level	Via Programmable Inputs	Yes	N/A	N/A	N/A	Via Programmable input	N/A	Yes	Yes
Overload (kW exceeds 100% of standby)	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes
Failure to Start	Yes	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes
Motor Running	Via Programmable Inputs	N/A	N/A	N/A	N/A	Yes	Yes	N/A	Yes
Scheduled Maintenance Due	Yes	N/A	N/A	Yes	Yes	Yes	Yes	N/A	Yes
Audible Pre-Alarm	With Optional Alarm Horn	N/A	N/A	N/A	N/A	Yes	N/A	Yes	N/A
Battle Over Ride Input	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECU Communications Failure	Yes	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Active DTC	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
EPS Supplying Load	Yes	Yes	N/A	N/A	Yes	Yes	N/A	N/A	N/A
System Ready	Yes	Yes	N/A	N/A	N/A	Yes	N/A	N/A	Yes
Sender Failure	Yes	Speed	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Input Failure	No	N/A	N/A	Yes	N/A	N/A	Yes	Yes	Yes
Overspeed	Yes	N/A	N/A	Yes	N/A	N/A	Yes	Yes	Yes
Underspeed	Via Configurable Protection	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes
Flexible Sensor	Via Programmable Inputs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Failure to Stop	Yes	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes
Protection Disabled	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Yes
Fuel Usage	Via J1939 or Programmable Contact Inputs	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Yes
Customer Selected Pre-Alarms	up to 16 via the programmable inputs	(7) analog input, (21) programmable	N/A	N/A	Yes	Yes	Yes	Yes	Yes
Alarms/Shutdowns									
Low Oil Pressure	Yes	Yes	Yes	Yes	Yes	Via Programmable input	Yes	Yes	Yes
Oil Level	Via J1939 or Programmable Contact Inputs	N/A	Yes	N/A	N/A	Via Programmable input	N/A	N/A	Yes
High Oil Temperature	Via J1939 or Programmable Contact Inputs	Yes	N/A	N/A	N/A	Via Programmable input	N/A	Yes	Yes
Low Coolant Temperature	Yes	N/A	Yes	N/A	N/A	Via Programmable input	N/A	Yes	Yes
High Coolant Temperature	Yes	Yes	Yes	Yes	Yes	Via Programmable input	Yes	Yes	Yes
Low Coolant Level	Yes	Yes	Yes	N/A	N/A	Via Programmable input	N/A	Yes	Yes
Low Fuel Level	Yes	No	Yes	Yes	Yes	Via Programmable input	Yes	Yes	Yes
Fuel Leak	Via J1939 or Programmable Contact Inputs	N/A	Yes	N/A	N/A	Via Programmable input	N/A	N/A	Yes
Mag Pickup Failure	Yes	N/A	N/A	Yes	Yes	Via Programmable input	Yes	Yes	Yes
Overcrank	Yes	Yes	Yes	N/A	N/A	Via Programmable input	N/A	Yes	Yes
Underspeed	Via Configurable Protection	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes
Overspeed	Yes	Yes	Yes	Yes	Yes	Via Programmable input	Yes	Yes	Yes
Failure to Start	Via J1939 or Programmable Contact Inputs	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes
Airbox Trip	Via Programmable Contact Inputs	Yes	N/A	N/A	N/A	Via Programmable input	N/A	N/A	N/A
EEPROM failure	Watchdog	Yes	N/A	Yes	Yes	Yes	N/A	N/A	Yes
Emergency Stop Button Input	Yes	Yes	N/A	Yes	Yes	Via Programmable input	Yes	Yes	Yes
ECM Coms Loss	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes
ECU Generated Shutdown	Via J1939 or Programmable Contact Inputs	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Yes
Internal Fault	Yes	Yes	N/A	N/A	N/A	Yes	Yes	N/A	Yes
Flexible Sensor Failure	No	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Analog Sendor Failure	Yes	N/A	N/A	Yes	N/A	N/A	Yes	Yes	Yes
Digital Sender Failure	No	N/A	N/A	Yes	N/A	N/A	Yes	Yes	Yes
Fuel Usage	Via J1939 or Programmable Contact Inputs	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Engine Sender Failure (Oil Pres/Coolant Temp)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audible Alarm Horn	Optional Sold Seperately	Yes	N/A	Yes	Yes	Separate	External	N/A	Yes
Earth Fault	No	N/A	N/A	Yes	N/A	N/A	N/A	N/A	Yes
High Engine Temp	Via J1939 or Programmable Contact Inputs	N/A	N/A	Yes	Yes	N/A	Yes	Yes	Yes
Protection Disabled	Yes	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A
Customer Selectable Alarms	up to 16 via the programmable inputs	(7) analog input, (21) programmable	N/A	N/A	Yes	Yes	Yes	N/A	Yes

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Digital Display									
Front Panel Alpha/Numeric Display	64x128 Active Matrix Back Lit LCD	2 Line vacuum Florescent	LCD or LED with LED annunciation	LCD	320x240 5.7"LCD with Softkeys	Yes	Yes	Yes	Yes
Parameters simultaneously displayed	8 and Customizable	3	3	N/A	20	N/A	N/A	Yes	N/A
Programmable Display Parameters/Configuration	Yes	Analog Inputs are definable	N/A	Yes	Yes	Yes	Yes	Yes	Yes
AC Volts	1%	0.25%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AC Amps	1%	0.25%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ground Current	No	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A
Frequency	0.25%	0.50%	Yes	Yes	Yes	Yes	Yes	Yes	Yes
kW	3% of Full Scale	0.50%	N/A	Yes	Yes	Yes	Yes	Yes	Yes
kVA	3% of Full Scale	0.50%	N/A	Yes	Yes	N/A	Yes	Yes	Yes
kVAR	3% of Full Scale	0.50%	N/A	Yes	Yes	Yes	Yes	Yes	Yes
kWH	3% of Full Scale	N/A	N/A	Yes	Yes	Yes	Yes	N/A	Yes
kVARH	Yes	N/A	N/A	Yes	Yes	N/A	Yes	N/A	Yes
kVAH	No	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A
PF	+/-0.02 PF	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Bus AC Volts	1.0% (single phase)	No	N/A	Yes	Yes	N/A	Yes	Yes	Yes
Bus Frequency	0.25%	No	N/A	Yes	Yes	N/A	Yes	Yes	Yes
Oil Pressure	3% of Indication	Yes	Yes	±2% of full scale resistance (±4.8W) excluding transducer error	Yes	Yes	Yes	N/A	Yes
Oil Temperature	via J1939	DDEC and Waukesha only	N/A	Yes	Via J1939 or analog input	N/A	Yes	N/A	Yes
Oil Level and crankcase pressure	via J1939	DDEC Only	Yes	N/A	Via J1939 or analog input	N/A	Yes	N/A	Yes
Coolant Temp	3% of Indication	Yes	Yes	±2% of full scale resistance (±9.6W) excluding transducer error	Yes	Yes	Yes	N/A	Yes
Coolant Pressure and level	via J1939	DDEC Only	N/A	Yes	Via J1939 or analog input	N/A	Yes	N/A	Yes
Exhaust Temp	via J1939	N/A	N/A	Yes	N/A	N/A	Yes	N/A	N/A
Flexible Sensor	Via Programmable Inputs	N/A	N/A	±2% of full scale resistance (±9.6W) excluding transducer error	N/A	N/A	N/A	N/A	N/A
Engine Temp	via J1939	N/A	N/A	Yes	N/A	N/A	Yes	Yes	N/A
Other Temp	via J1939	Ambient or Intake Air (DDEC and Waukesha Only)	N/A	N/A	Yes	N/A	N/A	Yes	N/A
DC Battery Volts	3% of Indication	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
Total Engine Run Hours	1%	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes
RPM	2% of Indication	Yes	N/A	Yes	Yes	N/A	Yes	Yes	Yes
Governor Duty Level	via J1939	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
%gen duty level (actual load kW/standby kW)	via J1939	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Number of Starts	Yes	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes
Fuel Level	2%	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
Fuel Pressure	via J1939	Fuel Pressure, Temp, Level, Fuel used last run (DDEC Only)	N/A	Yes	Via J1939 or analog input	N/A	N/A	N/A	Yes
Turbo Pressure	via J1939	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Real time clock/exercise setting	via J1939	N/A	Yes	Yes	N/A	N/A	Yes	Yes	N/A
Auto Scrolling Provision	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wye/Delta Metering	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A
High Line/Low Line Contact Input	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grounded Delta Configuration	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
LED Annunciation	Yes	Yes	Red/Yellow/Green	Yes	Yes	Yes	Yes	Yes	Yes
V/Hz Active	Via J1939	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A

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Additional Features									
User Programmable Engine Senders w/Library	Yes	N/A	N/A	N/A	VDO & Programmable	3	N/A	Yes	N/A
Microprocessor Based	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	N/A
Flash Memory	Yes	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A
Speed Sensing Methods	MPU, Charging Alt, Generator Frequency	N/A	Gen or MPU	N/A	MPU	MPU	N/A	Yes	N/A
Pre Start Time Delay	Yes	Yes	Yes	N/A	N/A	Yes	N/A	MPU/Gen	N/A
Crank Disconnect on Oil Pressure	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
Cool Down Timer	Yes	Yes	Yes	N/A	N/A	Yes	N/A	Yes	N/A
Preglow Delay	Yes	Yes	Yes	N/A	N/A	Yes	N/A	Yes	N/A
Self Test Switch	Yes	Yes	N/A	N/A	External	N/A	N/A	Yes	N/A
Reset Switch	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	N/A
Run/Off/Auto Switch	Yes	Yes	Yes	Yes	External	Yes	Yes	N/A	Yes
Emergency Stop Switch	Input	Yes	Input	Yes	External	Yes	Yes	N/A	N/A
Generator Breaker Control Switch	Input/Virtual	N/A	N/A	Yes	Yes	Yes	Yes	N/A	Yes
Mains Breaker Control Switch	Input/Virtual	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Alarm Mute	Front Panel	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes
Lamp Test	Front Panel	Yes	N/A	Yes	N/A	N/A	N/A	Yes	Yes
Mains Sensing Voltage	1-Phase	N/A	N/A	N/A	3 phase	N/A	Yes	Yes	N/A
Bus Sensing voltage	1-Phase	N/A	N/A	Yes	1 phase	N/A	Yes	Yes	N/A
Current Sensing (gen)	3-Phase	N/A	N/A	Yes	3 phase and neutral	N/A	Yes	Yes	N/A
Analog Output	Via AEM-2020 or LSM-2020	N/A	N/A	N/A	+/-10V/+/-20mA/PWM	N/A	N/A	Yes	N/A
Analog Inputs	Via AEM-2020 or LSM-2020	N/A	N/A	3	3 configurable	N/A	3 (Sender Inputs)	Yes	N/A
Provisions for remote Emergency Stop Button	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	N/A
Terminal Blocks do not require lugs	Yes	N/A	Requires two different styles of connectors	N/A	Yes	Yes	N/A	Yes	N/A
Data Logging	Last 900 Events	Last 100 events	Last 99 Events	Yes	Yes - 300 events	119 EVENTS	Yes	N/A	Yes
Not in Auto LED	Yes	Yes	Yes	N/A	LCD indication	N/A	N/A	Yes	N/A
EPS Supplying Load LED	Yes	N/A	Yes	N/A	LCD indication	N/A	N/A	Yes	Yes
Real time clock with Battery Back-up	Battery Back-up is an Optional Feature	Real Time Clock	No Battery Back-up noted	N/A	Yes	Yes	Yes	N/A	Yes
Mains Active LED	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Comm Status LEDs	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Sleep Mode	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	N/A
Programmable Logic	Easy to use and Fully Programmable assignment of inputs/outputs, timers, function blocks, logic gates, Latches, Element Blocks.	N/A	N/A	N/A	Yes -via LogicsManager	Yes - mappable I/O	Yes	N/A	N/A
Programmable Contact inputs	16	21	8	11	Yes - 12	7	12	Yes	N/A
Expandable I/O Modules	Contact, analog and/or Modem via J1939 (Optional)	N/A	N/A	Yes	Yes	Yes	Yes	Yes	N/A
Battle Over Ride Mode	Yes	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
Time Delay for Battery Charger Failure Input	Yes	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A
Watchdog Timer	Yes	Yes	N/A	N/A	Yes	No	N/A	N/A	N/A
Auto Synchronizer	Optional Feature	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes
Automatic Mains Failure	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
Generator Exercizer	Yes	Yes	10-240 Minutes	Yes	Yes	N/A	N/A	N/A	N/A
Encapsulated Design (Potted)	Yes	N/A	N/A	N/A	No	No	N/A	N/A	N/A
Front Panel Programmable	Yes	Yes	Yes	N/A	No	Yes	Yes	N/A	Yes
Single Phase/Three Phase Override Input	Yes	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
High Line/Low Line Contact Input	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sender Inputs	3	3	6	N/A	3	3	3	N/A	N/A
Resistive input	No	N/A	N/A	N/A	0-500Ω Cu or 100Ω Pt RTD	N/A	N/A	Yes	Yes
Back Cover	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes	N/A
Manual Synchronization	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Synchroscope	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Load Control/Load Management									
Import /Export control at POCC	No	N/A	N/A	N/A	Yes	N/A	Yes	N/A	Yes
Load Dependant Start Stop	16 machines w/LSM-2020	N/A	N/A	N/A	32 machines	N/A	Yes	N/A	N/A
Soft load	Yes	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A
System reserve Start/Stop	Yes	N/A	N/A	N/A	Yes	N/A	Yes	N/A	N/A
Generator Sequencing	Yes	N/A	N/A	Yes	Yes	N/A	Yes	N/A	Yes
Load Shedding	No	Yes	N/A	Yes	N/A	N/A	Yes	N/A	Yes
PF Regulation	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Reactive Load sharing	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Communications									
Engine metering information via SAE J1939 & ECU	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ECU Override	No	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes
CANopen	No	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A
Programmable via a PC	with PC software included	Yes	Yes	via DSE Configuration Suite	Yes	Yes	Yes	Yes	Yes
File Transfer Capability	Yes	N/A	N/A	N/A	Yes	Yes	N/A	Yes	N/A
Communications Protocol	Modbus and CAN bus	Kbus between 550 and PC Modbus between 550 and Master	N/A	Modbus RTU	Modbus RTU	Optional Modbus	Optional Modbus	Modbus and CAN bus	Modbus and CAN bus
Internet Access	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Remote Via Modem/Dedicated phone line	Optional Dial Out with External Module	N/A	N/A	N/A	N/A	OPTIONAL MODULE	Yes	N/A	Yes
Password Protected Access	3 Levels	N/A	N/A	N/A	Yes	Yes	Yes	N/A	4 Levels
RS485 Comm (4 Wire) to Remote NFPA Panel	via RDP-110 panel	N/A	N/A	N/A	N/A	RS232	Yes	3 Levels	N/A
RS485 Coms	with Modbus RTU (Optional)	Modbus Protocol (RTU or TCP/IP)	Yes	Modbus RTU	Yes	Optional Modbus	Yes	N/A	Yes
Comm Ports	USB, J1939, R485 (Optional), Modem (Optional)	RS232, RS485	RS232, RS485, J1939	RS232, RS485, J1939, Ethernet	4-RS486,RS232.& (2) CAN	with External modules for RS 232, Modbus(485), modem, ethernet. J1939 CAN standard	7	Yes	2 RS-232/RS-485(DB9 connect), 1 RS-232/RS-485 (4 wire), Modem Interface
USB Port	Mini B Connector	N/A	N/A	USB 2.0	No	optional USB Card	N/A	N/A	No

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Specifications									
Contact Ratings	(3)30 A & (12) 2A @30 Vdc	Separate Driver module rated at 10A 28 Vdc	(3) 40A & (8) 300 mA MaYes	(2) 15A @ 35V, (2) 5A @ 250V, (6) 3A @ 35V	2A @ 250VAC/24VDC	0.5 A	N/A	5A (2A UL Listed)	500mA and 10A
Contact Outputs:	7 or 15	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A
Operating Temperature	-40 to +70C	-40 to +70C	-40 to +85C (with LCD -20 to +70C)	-30 to 70 C	-20 to 70 C	-20 to 70C	-20 to 70C	-20 to 70C	-30 to 60C
Humidity 95% Non-condensing	Yes	Yes	80% for Storage	N/A	Yes	Yes	Yes	Yes	N/A
Vibration	10-500 Hz @ 5 G	N/A	N/A	N/A	N/A	4G	24-1000Hz, 6G	3-13.2Hz 2mm, 13.2-100Hz 0.7g	N/A
Shock	15G's	N/A	N/A	N/A	N/A	200 m/s	N/A	50g for 11mS	N/A
12/24 Vdc Power Input	6 - 32 Vdc	12 or 24 Vdc	7 - 32	8-35Vdc	Yes	8-36Vdc	Yes	8-36Vdc, 10mA	6.5-33Vdc
Cranking Ridethrough	0 Vdc for 50mSec Typical (starting from 10 Vdc nominal voltage)	N/A	N/A	Able to survive 0V for 50mS providing the supply was at least 10V before the dropout and recovers to 5V. This is more than sufficient to allow cranking where the battery supply often falls belows 4V (on a 12V system)	N/A	N/A	N/A	N/A	N/A
Generator Voltage Input	12 to 576	N/A	700 Vac Max	15 - 333 VL-N and 26 - 576VL-L	100V & 400V nominal	0-480V	N/A	100-690Vac	0-300Vac
400 Hz Operation	Special Model	N/A	Not Available	No	No	N/A	N/A	N/A	N/A
Generator Current Input	1 or 5 A	N/A	5A	1A or 5A	1 or 5A	5A	N/A	1A or 5A	1A or 5A
MPU Input	3 to 35V Peak, 32 to 10,000Hz	N/A	0-300 Vac & 0-3600 RPM	N/A	Yes	2-50Vac - 10-10,000 Hz	N/A	2-70Vac, 10Hz-10kHz	N/A
Agency/Standards									
UL Listed	UL6200	UL508	N/A	N/A	Yes	N/A	N/A	Yes	N/A
UL Class 1 Div 2	Available	N/A	N/A	N/A	N/A	N/A	N/A	As a Complete Device	N/A
CSA Approved	Yes	N/A	N/A	N/A	cUL	N/A	N/A	N/A	N/A
IEC 255 Class 2 (Noise Immunity)	No	N/A	N/A	N/A	N/A	N/A	N/A	CSA 22.2 no 14-05	N/A
NFPA 110 Level1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	Yes	N/A
IEEE C37.90A SWC /Fast Transient	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IEEE C37.90.2 RFI Susceptibility	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IEEE C62.41-1999	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Salt Fog	Powered ASTM B 17-73 & IEC68-2-11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CE Approved	EMC and LVD	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
IP Front Panel Rating	IP54 with integral gasket	N/A	N/A	IP65 w/ Gasket, IP 42 w/o Gasket	IP54	IP65	N/A	IP52, IP54 w/ Gasket	IP54
BS 4884	No	N/A	N/A	Sub Groups: 1, 2 & 3	N/A	N/A	N/A	N/A	N/A
BS EN 60068-2	No	N/A	N/A	Sub Groups: 1 & 2	N/A	N/A	N/A	Yes	N/A
BS EN 60950	No	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
BS EN 61000-6	No	N/A	N/A	Sub Groups: 2 & 4	N/A	N/A	N/A	N/A	N/A
BS EN 60529: IP65	No	N/A	N/A	With Optional Sealing Gasket	N/A	N/A	N/A	N/A	N/A
BS EN 60529: IP42	No	N/A	N/A	Without Optional Seal	N/A	N/A	N/A	N/A	N/A
UL508 NEMA Rating	No	N/A	N/A	12 with Sealing, 2 without sealing	N/A	N/A	N/A	N/A	N/A
GOST-R	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Contact Outputs									
Fuel Solenoid Control	30A	N/A	40A	15A @ 35Vdc	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Crank Relay	30A	N/A	40A	15A @ 35Vdc	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Ignition Control (Run)	Via Programmable Contact (2A)	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Air Box Damper Control	Via Programmable Contact (2A)	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Ready to Load Relay Output	No	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
ATS Control	Via Programmable Contact (2A)	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Aux Lube Pump Control	Via Programmable Contact (2A)	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Glow Plug relay	30A	N/A	40A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Common Alarm	Via Programmable Contact (2A)	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Common Pre-Alarm	Via Programmable Contact (2A)	N/A	N/A	N/A	Via Programmable Contact (2A)	7 digital programmable	17 Programmable	N/A	14 Programmable Total
Customer Selected Output Contacts	5 standard and up to 12 (2A)	31 total output drivers for Dry contacts use separate module	(8) 300 mA open collector, requires relays	N/A	12	7 digital	2	N/A	14 Programmable

Manufacturer Model Number	Basler Electric	Kohler Power Systems	Dynagen	DeepSea	Woodward	ComAp	CAT	Deif	Huegli-Tech
	DGC-2020	DecisionMaker 550	GSC400	8610	EasyGen 3200 (P2)	IntelLite AMF-25	EMCP 4.4	GPC-3	DST4602
Generator Protection									
Time Delay Starting or Closing Relay (2)	No	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Starting Circuit Breaker (6)	No	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Annunciator (30)	Yes, but not IEEE labeled	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Running Circuit Breaker (42)	No	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
Ac Over Voltage (59)	(4) Settings with Auto single Phase	Yes	(4) Settings	Yes	Yes	Yes	Yes	N/A	Yes
Exciter/ DC Generator Relay (53)	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turning Gear Engaging Device (54)	No	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
Time Delay Stopping or Opening Relay (62)	Yes, but not IEEE labeled	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Pressure Switch (63)	No	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Ac Under Voltage (27)	(4) Settings with Auto single Phase	Yes	(4) Settings	Yes	Yes	Yes	Yes	Yes	Yes
Alarm Relay (74)	Yes, but not IEEE labeled	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Over Frequency (81O)	Standard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Underfrequency (81U)	Standard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lockout Relay (86)	Yes, but not IEEE labeled	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Instantaneous Overcurrent (50)	No	N/A	N/A	Yes	N/A	N/A	Yes	Yes	Yes
AC Overcurrent (51)	Optional	Yes	(4) Settings	Yes	Yes	Yes	Yes	Yes	Yes
AC Circuit Breaker (52)	No	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A
Voltage Imbalance (47)	Optional	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Current Imbalance (46)	No	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes
Incomplete Sequence (48)	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Over Power (32)	(3) Settings	Yes	N/A	N/A	Yes	N/A	Yes	N/A	Yes
Reverse Power (32R)	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Loss of Field/Reverse VARs (40Q)	Yes	Yes	N/A	N/A	Yes	Yes	N/A	Yes	Yes
Generator Overexcited	No	N/A	N/A	N/A	Yes	N/A	N/A	Yes	N/A
Field Over Voltage (59F)	No	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ground Fault	via Programmable Contact	Requires separate module	N/A	Yes	Yes	N/A	N/A	N/A	Yes
Out of Step / Phase shift (78)	Yes	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A
High Generator Temperature	Optional I/O	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes
Mains Protection									
Mains PF Lagging	No	N/A	N/A	N/A	Yes	N/A	N/A	Yes	N/A
Main PF Leading	No	N/A	N/A	N/A	Yes	N/A	N/A	Yes	N/A
Underfrequency (81U)	Yes	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes
Undervoltage(27)	Yes	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes
Overfrequency (81O)	Yes	N/A	N/A	N/A	Yes	N/A	N/A	Yes	Yes
Overvoltage (59)	Yes	N/A	N/A	N/A	Yes	N/A	N/A	Yes	Yes
Mains Export power limit	No	N/A	N/A	N/A	Yes	N/A	N/A	Yes	N/A
Mains Import Power Limit	No	N/A	N/A	N/A	Yes	N/A	N/A	Yes	N/A
Voltage Imbalance (47)	No	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes
Rate of Change of Frequency (81 ROCOF)	Optional	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes
Vector Shift (78)	Optional	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes
Dimensions									
Height	8.27" (210mm)	10.8" (275mm)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width	11.77" (299mm)	18.15" (460mm)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Depth	2.69" (69mm)	11.47" (291mm)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weight	4.40lb (1.99kg)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Optional Features									
400 Hz Operation	Yes	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A
UL Class 1 Div 2	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Enhanced Generator Protection	Yes	N/A	N/A	N/A	Standard	N/A	N/A	Yes	N/A
RS485 Communications Modbus Protocol	Yes	Standard	N/A	N/A	Standard	Option module	N/A	Yes	N/A
Modem Communications (US Domestic)	via RS-232 [Rev 3 Option]	Optional	N/A	N/A	N/A	Option module	N/A	N/A	N/A
Modem Communications (International)	via RS-232 [Rev 3 Option]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Automatic Synchronizer	Yes	N/A	N/A	N/A	Standard	N/A	N/A	Yes	Yes
Load Share Module	LSM 2020	N/A	N/A	N/A	Standard	N/A	Yes	Yes	Yes
Auxiliary I/O board	CEM-2020 and AEM-2020	N/A	N/A	N/A	Woodward IKD or Phoenix IL	IGS-PTM or IGS-IOM	Yes	Yes	N/A
Mains Failure AMF	Standard	N/A	N/A	N/A	Standard	Standard	Yes	N/A	Yes
Languages	5	N/A	N/A	N/A	10	N/A	28 Languages	N/A	N/A
Integrated Voltage Regulator	No	Standard	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Local Emergency Stop Button	Yes	Std	N/A	N/A	External	Yes	N/A	Yes	Yes
Sealing Gasket	Pre-installed	N/A	N/A	Yes	N/A	N/A	N/A	Yes	Yes
Annunciator Panel	RDP-110	Yes	N/A	N/A	N/A	NT-RD	Yes	N/A	N/A
Remote Display Panel to meet NFPA(# of wires)	RDP-110 (4wires)	Remote Panel Uses RS485 Modbus	N/A	N/A	N/A	NT-RD via RS232	N/A	N/A	N/A

N/A indicates that information about that feature is not available for that product.

NO indicates that feature is not present in that product.

The research process on these competitive products resulted in the use of various information channels and informal documentation in an effort to gather as much information as possible. While much effort was made to verify the accuracy, this document is intended only as an internal, noncomprehensive and informal sales aid which may contain data found to be inaccurate or incomplete because of unavailable/unverified information or contribution from unofficial sources. If any discrepancies are found to exist or you have new information to contribute, please notify Basler Electric so this document can be maintained with the most accurate and complete information available. Thank you.