

DSE 8610 MKII



DSE8610MKII panel is a built-in Synchronizing and load-sharing panel that can parallel upto 32 generating sets together over one MSC link. It could also be parallel with Mains on fixed export mode. if a generating set will parallel with Mains on different mode, DSE8620MKII can be applied. The panel is applied to operate Generating set with high specs of control and Protection.

Construction

Sheet fabrication	CNC shearing & bending
Paint type	Heat-treated powder-coated
Paint application	Electrostatic corona spraying
Durability tests	<ul style="list-style-type: none"> • IMPCAT [EN ISO 6272] • Salt spray resistance [ASTM B117-73] • Humidity Resistance [ASTM D2247]
Compliances	<ul style="list-style-type: none"> • Panel is compliant with [ISO8528-8] • Clearance & Creepage [IEC60355-1] • Leakage current & Dielectric strength [IEC60355-1] • Protection against electric shock [IEC600 364-4-41]
Degree of protection	IP55
Wire crimping	<ul style="list-style-type: none"> • Crimping force up to 20KN • Accuracy of 0.01mm • Each crimping is Checked by Komax CFA+
Wire coding	<ul style="list-style-type: none"> • Wires are coded by color and cross section • Wires are coded by printed numbers • Wires are coded by printed function of the wire



- Image is for reference only and might not be 100% reflective of the actual product.
- Due to continuous improvements, above data is subject to change without prior notice.

Certifications



- The control panel is certified by an ISO 17025 accredited laboratory to have IP55 according to IEC 60355



Standard features

Protection (Standard)	Control (Standard)	Instrumentation (Standard)
Fail to Synchronize	Synchronizing and Load Sharing	Dynamic Synchroscope
MSC link alarm	Mains Fixed export	Gen AC Voltage: 3phase VLL & VLN
Over /Under/ Sequence AC Gen V	Breaker control	Gen Frequency: Hz
Over /Under frequency	Data log and Event log (250+)	Gen Current: 3 phase A
IDMT Short-circuit	Weekly /Monthly Exerciser	Power: KW, KVA, KVAR & PF
Over KW / Reverse power	Audible Alarm (64dB)	Energy: KWhr, KVAhr & KVARhr
Unbalanced Load	Enhanced CAN-bus J1939	Lube Oil pressure
Over/Reverse KVAR	Modbus RTU (RS485 / RS232)	Engine coolant temperature
Earth fault current ^{Note 3}	Ethernet – Modbus TCP	Battery DC Voltage
High/Low Battery voltage	Ethernet – SNMP V2c	DC Alternator Voltage
High Engine Temperature	Data logging to memory or USB	Engine Speed
Low oil pressure	Connection to DVR (can bus)	Operating hours
Low coolant level ^{Note 2}	Connection to smart charger	
DC alternator fail	Redundant MSC link	

Optional features

Protection (Optional) <small>Note 1, 3</small>	Control (Optional) <small>Note 1</small>	Instrumentation (Optional) <small>Note 1, 3</small>
• High oil temperature	• Battery Changer: 5A, 10A , UL	• Lube oil temperature
• High exhaust temperature	• Fuel pump Control	• Exhaust temperature
• Low fuel pressure	• Oil Sampler	• Engine Inlet air (Boost) pressure
• Low coolant pressure	• Dummy load control	• Fuel pressure
• Low fuel level	• Load shedding control	• Coolant pressure
• Low oil level	• Remote Display (Mirror) unit	• Fuel level
• High winding temperature	• Pre-lube oil pump	• Lube oil level
• High bearing temperature	• WEBNET: via DSE890 Gateway	• Charging ammeter
• Low boost pressure	• Extension: <i>Digital Input, Digital Output, LED, Analogue 4-20ma/0-10V inputs / thermocouple inputs / analogue output, GPS tracker</i>	• Winding temperature 3xRTD
• Fusible link fire protection	• Heaters: <i>Water jacket, oil sump, fuel tank, Battery, anti-condensation</i>	• Bearing temperature RTD
		• Outlet alternator temperature
		• Ambient / Canopy temperature

Notes

Note 1: Some OPTIONAL features could be standard is CANbus is established within electronic engines

Note 2: Low coolant level protection is standard feature for Gensets above 200KVA, otherwise it is optional.

Note 3: This is to be mentioned during ordering