

AUTOMATIC TRANSFER SWITCH ATS



TECHNICAL DATA

- Models from 40A to 2500A
- Voltage from 208 to 480V
- 3 phases + neutral, 60Hz/50Hz
- Reference protection degree IP-54
- Steel enclosure of modular construction, with 1.5, 2 and 3 mm thick steel plate for the structure, panel and doors.
- Surface cleaning process with chemical pickling, and powder coating process (electrostatic coating) with a RAL 7035 colour finish.
- Indicator lights for mains on load and generator set on load.
- Emergency stop.
- Acrylic or metallic protective panel (depending on the amperage)
- Manufacturing of panels with IP65 is optional.
- Note: consult for more details by model.



APPLICABLE BUILDING CODES

- MTTA: Automatic Transfer switchboard with built-in control module.
- MTTC: Automatic Transfer switchboard without module, externally controlled.

TRANSFER MECHANISM

- Istandard power supply of the motor control at 220 VAC.
- Different operation modes: automatic or manual (with a lever to switch between mains or generator set power).
- Electrical and mechanical interlocking mechanism that prevents simultaneous closure between the mains and the generator set.

MOTORIZED SWITCH SAFETY STANDARDS

- IEC60947-1 low-voltage equipment and general control equipment.
- IEC60947-2 control equipment and low-voltage equipment, low-voltage switches, disconnectors, switches, and combination electrical fuses.
- IEC60947-6 Multifunctional low-voltage control device and control equipment.

QUALITY ASSURANCE

- ISO 9001:2015 registered manufacturing process.

OPTIONAL ACCESSORIES

- Deep Sea / Comap Controller
- Lifting eye
- Fan kit
- Other IP protection grades
- Optional colour: RAL 7032
- Other options (consult)



The automatic transfer switch (ATS) is powered by an electrical motorized contactor switch. When the mains (utility) fails or its parameters are out of the limits, It automatically disconnects the load from the mains and switch the load to the emergency power source (gen set). When the Mains's input values (voltage and frequency) are between the limits; It automatically retransferred the load to the mains (utility) source. All transfer sequences are in "open transition", which means, with interruption of energy supply in between the exchanges of energy.

FEATURES OF ABB FOUR-POLE AUTOMATIC TRANSFER SWITCH

MODEL	RATED CURRENT (A)	ENCLOSURE TYPE	DIMENSIONS (MM)			APPROX WEIGHT (KG)
			HEIGHT (A)	WIDTH(B)	DEPTH(C)	
3 x 40A	40	WALL MOUNT	880	550	250	60
3 x 63A	63		880	550	250	60
3 x 80A	80		880	550	250	60
3 x 100A	100		880	550	250	60
3 x 125A	125		880	550	250	60
3 x 160A	160		880	550	430	80
3 x 200A	200		880	550	430	80
3 x 250A	250		880	550	430	80
3 x 400A	400		880	550	430	80
3 x 630A	630	FLOOR MOUNT	1700	800	830	230
3 x 800A	800		1700	800	830	230
3 x 1000A	1000		2100	800	830	250
3 x 1250A	1250		2100	800	830	250
3 x 1600A	1600		2100	800	830	250
3 x 2000A	2000		2100	1000	830	350
3 x 2500A	2500		2100	1000	830	350

40A – 2500A: Switch Current Capacity | Referential Dimensions & Weights | A: Amperes| Reference images and features are subject to change without notice.

DIMENSIONAL DIAGRAM

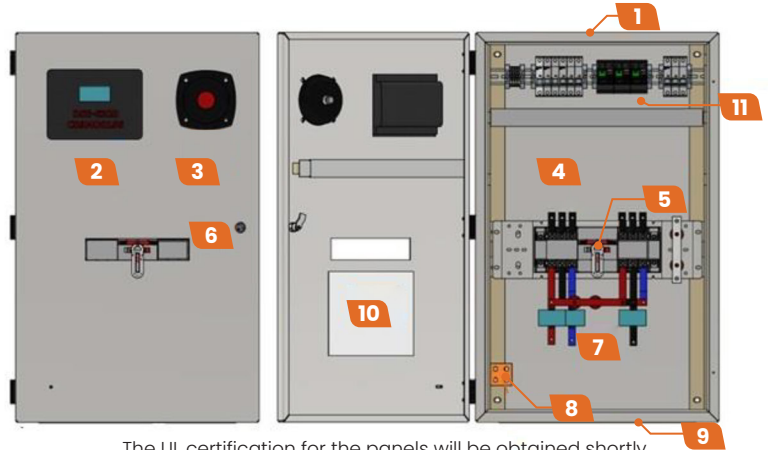


Up to 1600A: One door enclosure
2000A to 2500A: Two doors enclosure

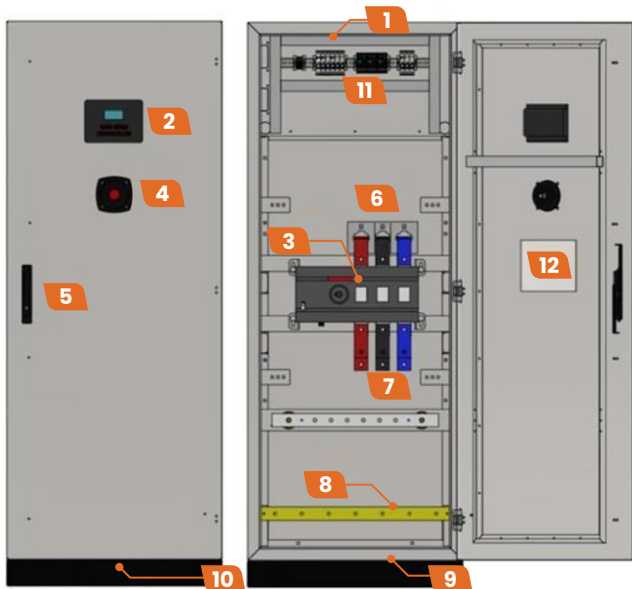
STANDARD FEATURES OF AUTOMATIC TRANSFER SWITCHBOARDS – ATS

FEATURES 40A-400 SWITCHBOARD

- 1 Wall-mounted enclosure
- 2 Control Module
- 3 Emergency stop button
- 4 Mains – Genset power connections
- 5 Electrical-motorized Switch
- 6 Door lock
- 7 Load power connection
It's the load connection point, the busbars have an opening there for making the distribution
- 8 Ground bar
- 9 Entry and exit removable cover for power connections
- 10 Electrical diagram
- 11 Terminal blocks for control connection



The UL certification for the panels will be obtained shortly.

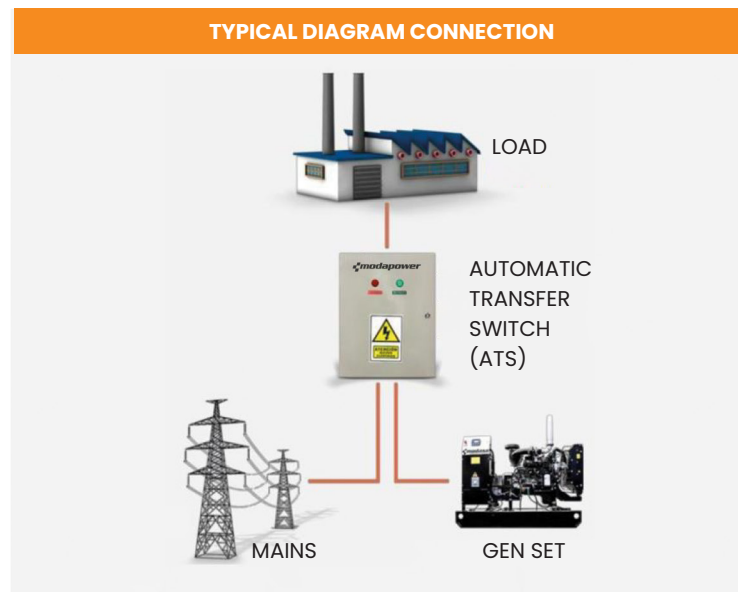


FEATURES 630A-2500A SWITCHBOARD

- 1 Floor-mounted enclosure
- 2 Control Module
- 3 Electrical-motorized Switch
- 4 Emergency Stop Button
- 5 Door lock
- 6 Mains – Genset power connections
- 7 Load output power connection
- 8 Ground bar
- 9 Entry and exit removable cover for power connections
- 10 Enclosure support base
- 11 Terminal blocks for control connection
- 12 Electrical diagram

The UL certification for the panels will be obtained shortly.

TYPICAL DIAGRAM CONNECTION



MODULES APPLICATION

MODULE TECHNICAL DATA

- Models by brand:
Deep Sea: 4520 MKII, 6320 7320 MKII, 7420 MKII
Comap: Intelilite 9, AMF25
- DC Voltage supply: 12V or 24V

FEATURES

- Real-time clock.
- Event log, showing date and time.
- Navigation menu
- Multiple parameters are monitored and displayed simultaneously for full visibility.
- Kw overload protection
- Data logging for troubleshooting aid.
- On-screen text.

MEASUREMENT

- Voltage phase-neutral: L1-N, L2-N, L3-N
- Voltage phase-phase: L1-L2, L2-L3, L3-L1
- Frequency: Hz
- Amps per phase: L1, L2, L3
- Hour meter: Hrs
- Battery voltage: Vcd
- kW, kVA, Pf, kWh, kVAR
- kVAh, kWh

ADVANTAGE

- The ATS module supports Modbus RTU protocol (over RS485 and Ethernet ports) and can be integrated into Building Management systems (BMS).



**DSE 7320 MKII
MODULE**

**DSE 4520 MKII
MODULE**



**DSE 7420 MKII
MODULE**

*** Note:** The module's selection will be according to the customer's application or request.



The Control module is the brain behind your automatic transfer switch. It controls and operates the electrical contactor switch in manual or automatic mode.



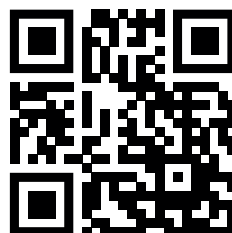
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