

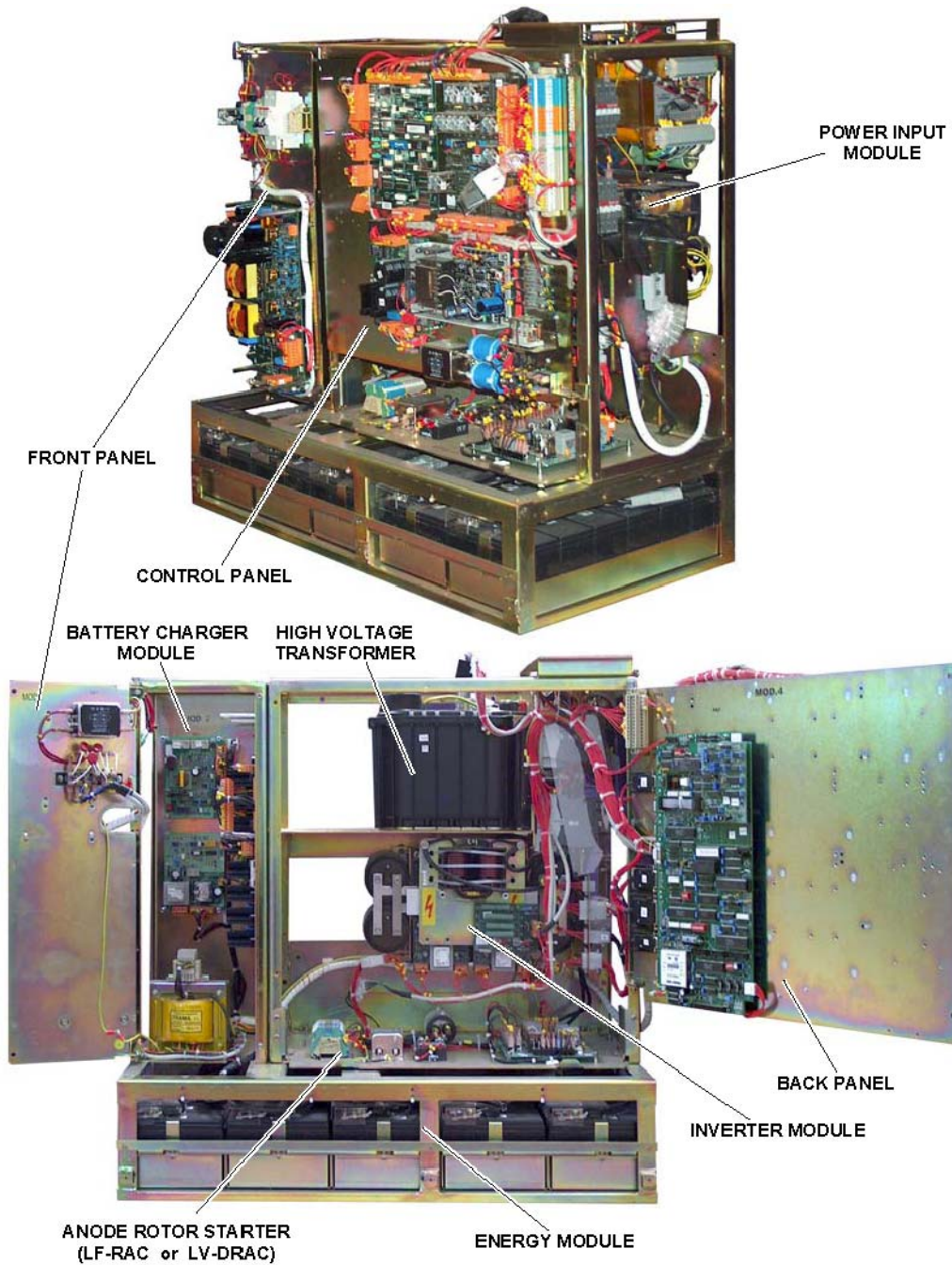
ASM Technical Publication

Rev. 1 (061002)

Modules Description of Compact ESM Generator

HF Series Generators

BATTERY POWERED COMPACT GENERATOR
ONE TUBE / TWO TUBES
LOW SPEED STARTER (LF-RAC) / HIGH SPEED STARTER (LV-DRAC)



MODULE 1 - FRONT PANEL / BACK PANEL

1A1	STAND-ALONE board (BACK PANEL)
1TB1	LINE / TABLE terminal strip
1TB2	Terminal strip
1K22	Table Relay
1LF1	Filter
1SW1	Magnetothermic Automatic Breaker

MODULE 2 - BATTERY CHARGER MODULE

2A1	BATTERY CHARGER board
2A2	ENERGY GUARD board
2A3	LINE MONITOR board
2SN1	SNUBBER
2T1	BATTERY CHARGER transformer

MODULE 3 - CONTROL MODULE

3A1	HT CONTROL board
3A2	INTERFACE CONTROL board
3A3	FILAMENT DRIVER board
3PS1	LVDC power supply
3LF3	LVDC filter
3K3	POWER INPUT relay
3BR1	SUPPLY rectifier
3BR2	+24V rectifier
3BR4	+12V rectifier
3F2	220V fuse
3F6	19V fuse
3F7	10V fuse
3F8	115V fuse
3F9	LVDC fuse
3C6	+24V capacitor
3C7	+12V capacitor
3TS1	INTERFACE OUTPUT terminal strip

MODULE 4 - STARTER MODULE

4A1	LF-RACK board
4LF2	START filter
4K1	START relay
4C5	PHASE SHIFT capacitor
4R4	DISCHARGE resistor
4R5	LOAD resistor
4RC1	RELAY filter
4TS2	TUBE terminal strip

MODULE 5 - INVERTER MODULE

5A1	IPM DRIVER #1 board
5A2	IPM DRIVER #2 board
5A3	CHARGE/DISCHARGE MONITOR #1 board
5R2	DISCHARGE resistor
5C1	STORAGE capacitor
5C2	STORAGE capacitor
5C3	STORAGE capacitor
5C4	STORAGE capacitor
5C8	FILTER capacitor
5C9	HT Capacitor
5C10	FILTER capacitor
5C11	FILTER capacitor
5L1	HT Inductor
5L2	BUS Inductor
5IGBT1	IGBT
5IGBT2	IGBT

MODULE 6 - POWER INPUT MODULE

6T2	POWER INPUT transformer
6K5	LINE contactor
6K6	CHARGE contactor
6F1	BATTERY fuse
6R1	CHARGE resistor
6NL1	POWER lamp
6J1	DC-BUS connector
6J3-B	COMMUNICATION connector
6J2	POWER connector
6J3-A	COMMUNICATION connector
6J3-B	COMMUNICATION connector
6J4	ESM connector

MODULE 7 - ADAPTATIONS MODULE

7A1	TOMO/BUCKY ADAPTATION board
7A2	AEC ADAPTATION board
7A3	LOCKS board

MODULE 8 - BATTERY MODULE

8TRAY1	BATTERY TRAY(J1)
8TRAY2	BATTERY TRAY(J2)
8TRAY3	BATTERY TRAY(J3)
8TRAY4	BATTERY TRAY(J4)
8TRAY5	BATTERY TRAY(J5)

MODULE 9 - HT. MODULE

9HT1HT	TRANSFORMER
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MODULE 10 - STARTER MODULE (FOR OPTIONAL LF-RAC VERSION)

10A1	LF-RACK board
10LF2	START filter
10K1	START relay
10C5-1	PHASE SHIFT capacitor (for 330 VAC Stator option)
10C5-2	PHASE SHIFT capacitor (for 220 VAC Stator option)
10R4-1	DISCHARGE resistor (for 330 VAC Stator option)
10R4-2	DISCHARGE resistor (for 220 VAC Stator option)
10R5	LOAD resistor
10RC1	RELAY filter
10TS2	TUBE terminal strip
10J7	INTERFACE connector
10J8	ROTOR VAC connector
10T3	220/330 VAC Transformer (for VAC Stator ion)

MODULE 11 - DRAC MODULE (FOR OPTIONAL DRAC VERSION)

11A1	CONTROL DRAC board
11A2	INTERFASE DRAC-HF board
11TS2	TUBE terminal strip
11J7	INTERFACE connector
11K1	TUBE relay
11K3	BRAKE relay
11K3	BRAKE relay
11KT1	TUBE contactor
11VR1	Varistor
11T AUX	AUXILIARY Transformer
11T MAIN	MAIN Transformer
11A3	CLAMPING board - Ferrite core