

12.3 Electrical system

| Unit | Item | Specification |
|--|------------------------------|--|
| AC alternator | Brand | Houchin |
| | Output voltage [V (AC)] | 115 / 200 |
| | Power [kVA] | 85 (continuous) |
| | Phase | 3 |
| | Frequency [Hz] | 400 |
| | Powered by | diesel engine |
| Transformer Rectifier Unit (TRU) | Output voltage [V (DC)] | 28 |
| | Output current [A] | 200 (continuous) |
| | | 1000 (for 35 seconds) up to 1400 (for 3 seconds) |
| DC to AC inverter | Output voltage [V (AC)] | 230 |
| | Output power [kW] | 4 (at 230 V) |
| | Frequency [Hz] | 50 |
| | Phase | 1 |
| | Number of DC to AC inverters | 2 |
| Batteries | Brand | Optima® |
| | Type | RedTop® |
| | Voltage [V] | 12 |
| | Capacity [Ah] | 70 |
| | Number of batteries | 4 |
| | Classification | Approved for air shipment, will not spill. Classified as non-regulated by IATA special provisions A-48 and A67 for UN2800. |
| Motor for the vacuum pump 5P1 | Voltage [V] | 24 |
| | Maximum capacity [L/min] | 36 |
| | Insulation class | B |
| Motor for the cooling fan of cooler 0C1 | Capacity [kW] | 14 at 40 °C temperature difference |
| | Power consumption [kW] | 0.55 (2800 rpm) |
| | Insulation class | F |
| AC output read-out (analogue and digital on monitor) | Voltage | 3 voltmeters (phase A, B and C) |
| | Current | 3 ampere meters (phase A, B and C) |
| | Frequency | 1 frequency meter |
| DC output read-out (analogue and digital on monitor) | Voltage | 1 voltmeter |
| | Current | 1 ampere meter |