

ECKraft™

Power Supply Solution

/ For Hydrogen Production



A modular, switch mode DC rectifier, with IP44 protection for harsh environments – designed for exceptional reliability in off-shore installations.



Air-cooled,
Tamb 55°C, IP44



Certified for
Offshore applications



Easy to operate and built-in
redundancy



Modular design -
Simple to trouble shoot



Global support



Long-term experience
and knowhow since 1935



Output up to 240V and 15600A

| No. of modules | Height (mm) | Weight (kg) | Max current (ADC) | | | | | | | |
|----------------|-------------|-------------|-------------------|--------|--------|---------|---------|---------|---------|---------|
| | | | 40 VDC | 60 VDC | 80 VDC | 120 VDC | 160 VDC | 180 VDC | 200 VDC | 240 VDC |
| 1 | 853 mm | 155 kg | 520 A | 350 A | 260 A | 175 A | - | - | - | - |
| 2 | 853 mm | 195 kg | 1040 A | 700 A | 520 A | 350 A | 260 A | - | - | 175 A |
| 3 | 1313 mm | 285 kg | 1560 A | 1050 A | 780 A | 525 A | - | 350 A | - | 260 A |
| 4 | 1313 mm | 325 kg | 2080 A | 1400 A | 1040 A | 700 A | 520 A | - | - | 350 A |
| 5 | 1773 mm | 425 kg | 2600 A | 1750 A | 1300 A | 875 A | - | - | 520 A | - |
| 6 | 1773 mm | 465 kg | 3120 A | 2100 A | 1560 A | 1050 A | 780 A | 700 A | - | 525 A |

ECKraff™ Power Supply Solution

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ECKraff is an easy-to-install rectifier, advantageous when water cooled power supply is not feasible.

TECHNICAL DATA

General

| | |
|------------------------|--|
| Supply voltage: | 3x 380-48 |
| Protection class: | IP 44 |
| Power factor: | ≥ 0.95 @ rated load |
| Efficiency: | Typically 92% @ rated output |
| Ambient temp.: | 0-55°C |
| Cooling: | Air |
| Airflow: | 350 m³/h per power module |
| Linearity: | Voltage/current < ± 1% |
| DC ripple: | < 2% of rated output current at current control |
| Regulation range: | 0-100% for voltage and current control |
| Duty ratio: | Designed for continuous operation at rated load up to 1000 m altitude |
| Rated output. voltage: | Up to 240VDC |
| Rated output. current: | up to 3120A per stack @ 40VDC, max 5 stacks in parallel |
| Pout, max: | 21 kW per power module |
| Protection: | Over-current, Over-voltage, High temp, Short circuit proof, Open circuit proof |
| Width x Depth: | 613 x 706 mm |

CONTROL

Control interface

- Digital Display and Keypad integrated into unit
- Modbus RTU/RS-485 or Profibus DP/RS-485
- Analogue signals: 0 - 10 V, (0)4 - 20 mA
- Digital signals: 24VDC

Input signals:

- Current and Voltage set value
- On/Off, Start/stop, Block/Run, Ampere hours, Run time,
- Clear counters, Emergency stop, Aux input

Output signals:

- Actual current and voltage
- Alarms / Warnings (general alarm)
- Alarm status (alarm reason), On signal, Run signal
- Aux output

Classification

- DNVGL Type Approval Certificate
- DNVGL-CG-0339, DNVGL-CP-0395,
- USC 46CFR162.060-30,
- IACS E10, Rev7,
- IMO G8 (MEPC.279(70))
- IC 62477-1
- EMCD 2014/30/EU
- IC/EN 61000-6-2: 2016, Immunity
- IC/EN 61000-6-4: 2018, Emission