

# 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

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ECKraft 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

Specification is subject to change without notice