

# FlexKraft Marine

DC power supply - designed for life at sea



- ✓ LOW OPEX
- ✓ SMALL FOOTPRINT
- ✓ BUILT-IN REDUNDANCY
- ✓ EASY TO OPERATE
- ✓ GLOBAL SERVICE
- ✓ 0-200V, 0-12.500A





## Technical data

Supply voltage:	3 x 380–480 V ± 10%, 50–60 Hz
EMC conformity:	According to EN 61000-6-4, Emissions, and EN 61000-6-2, Immunity
LVD conformity:	According to EN 50178
Marine standards:	According to IEC 60092-101, IEC 60092-304
Protection class:	IP 44
Power factor:	≥ 0.93 @ rated load
Efficiency:	Typical 0.90 @ rated output
Ambient temp.:	Max 131°F, min 41°F
Cooling:	Water cooling: Water inlet temperature: not below actual dew point, but max 108°F Water outlet temperature rise: 14.4°F Water pressure: 42–105 psf
Linearity:	Voltage/current < ± 1%
DC ripple:	< 2% of rated output current at current control in the entire range of regulation
Regulation range:	0–100% for voltage and current control
Duty ratio:	Designed for continuous operation at rated load up to 3280 ft altitude
Rated outp. voltage:	200VDC, @ >420 VAC
Rated outp. current:	up to 2500A per stack @ 30VDC
Pout, max:	10 kW per module @ rated voltage
Vout, max:	200V (max 100V per module) @ >420 VAC
Protection:	Over-current, Over-voltage, High temp, Short circuit proof, Open circuit proof, Reverse current, Module failure

## Classification

DNV	DNV Standard for certification No 2.4 Environmental Test Specification for instrumentation and automation
GL	GL Rules & Guidelines VI-7-2 Section 3 edition 2003, Test Requirements for Electrical / Electronic Equipment and Systems
Lloyd's	Lloyds register type approval system, edition 2002

## PLANT CONTROL SYSTEM

### PROCESS CONTROL PARAMETERS:

Digital Display and Keypad integrated into unit  
Modbus RTU/RS-485 or Profibus DP/RS-485

### Input control parameters:

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

### Output control parameters:

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

No. of Modules	Width [inch]	Depth [inch]	Height [inch]	Weight [lbs]	Min. cooling water flow [gall. per min.]
1	20.35	28.15	17.52	170	1.2
2	20.35	28.15	23.03	225	1.2
3	20.35	28.15	28.54	280	1.9
4	20.35	28.15	34.05	340	2.4
5	20.35	28.15	39.57	390	3.0
6	20.35	28.15	50.59	490	3.7
7	20.35	28.15	58.46	545	4.2
8	20.35	28.15	61.61	600	4.8
9	20.35	28.15	67.13	655	5.4
10	20.35	28.15	72.64	710	6.1