





Marine & Industrial DC Power Solutions 1-20 kW











General Description -

Seapower MT Rectifiers – Dual Output provide reliable and efficient DC power for both load supply and battery charging in marine and industrial applications. With modular architecture, the system can scale from 1 kW up to 20 kW. Advanced IGBT rectifier technology, active PFC, and robust protection functions ensure maximum efficiency, low THDi, and high reliability. Integrated battery charger output ensures seamless power availability and intelligent charging.

Highlights -

- Dual Output: Load Supply + Battery Charging
- Independent dual output
- Galvanic isolation
- Adjustable battery charging modes
- Soft start capability
- Modular design, scalable from 1 to 20 kW
- Wide Input Range: 180-505 VAC, 3P + PE and 90-264 VAC, 1P + PE
- High Efficiency (up to 94%)
- Low Input Current Distortion (THDi <5%)
- Active Power Factor Correction (PFC, >0.95 at full load)
- Comprehensive Protection (OVP, OCP, OTP, SCP, Fan Fail)
- Marine & Industrial grade design
- Easy maintenance, long service life





TECHNICAL SPECIFICATION	IS 1-20 kW	
INPUT Voltage Range (Single-Phase)	90 – 264 VAC, 47 – 63 Hz	
Voltage Range (Three-Phase)	180 – 505 VAC, 47 – 63 Hz	
Power Factor	>0.95 at full load	
Harmonic Distortion (THDi)	<5%	
. ,	<2 mA / 230 VAC	
Leakage Current	\ZIIIA	/ 250 VAC
OUTPUT	0.41/0.0	40.400.004
Nominal Voltage	24 VDC ±1%	48 VDC ±1%
Adjustment Range	23.5 – 30 VDC	47.5 – 58.8 VDC
Battery Voltage Range (Adjustable)	21 – 42 V	42 – 80 V
Ripple & Noise (max)	≤300 mVp-p	≤480 mVp-p
Efficiency	Up to 94%	
Power Range	1 – 20 kW	
PROTECTIONS		
Protections	Over/Under Voltage, Overcurrent, Short Circuit, Overtemperature (auto recovery), Fan Fail	
COMMUNICATION		
Interfaces	RS232, RS485, Modbus, Dry Contact	
Functions R	Remote Sense, Remote ON/OFF, Alarm Signals (DC-OK, T-Alarm), Auxiliary Power (5 V @ 0.3 A, 12 V @ 0.8 A)	
GENERAL		
Operating Temperature	-10 °C ~ +55 °C	
Storage Temperature	−15 °C ~ +55 °C	
Humidity	0 - 95% non-condensing	
Operating Height	up to 3000 m (derating applies)	
Galvanic Isolation	Yes	
IP Protection	IP20 (IP23-IP54 optional)	
Display	LCD Panel	
Alarms / Event Log	1500 historical event records	
STANDARDS		
Standards	EN62040-3, EN60950, ISO9001/14001, Marine Approvals (Türk Loydu, Lloyd's, RINA, BV Optional)	
DIMENSION & WEIGHT		
Cabinet Dimensions (mm)	Contact us	for Dimensions.

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Marine & Industrial DC Starter Power Solutions 400A - 2000A











General Description -

Seapower MSR Series Starter Rectifiers provide reliable and robust DC power for heavy-duty starting applications in marine, defense and industrial environments. Designed with modular architecture and high overload capability, the rectifiers can supply nominal currents up to 1000 A with 2.5x overload capability for transient starting demands. Advanced microprocessor control, galvanic isolation and comprehensive monitoring functions ensure maximum reliability, while optional communication interfaces and event logging provide enhanced diagnostics.

Highlights -

- Nominal Current Options: 400 A / 600 A / 800 A / 1000 A / 2000 A
- Overload Capability: Inominal × 2.5
- Output Voltage: 28.5 VDC
- Microprocessor controlled
- Galvanic isolation
- LCD display with alarms
- 1500 event historical log
- Communication: RS485, Modbus
- High efficiency (>92%)
- Marine & Industrial grade design







TECHNICAL SPECIFICATION	\$ 400A - 2000A	
INPUT Voltage Range	180 – 505 VAC, 3 Phase, 47 – 63 Hz	
Power Factor	>0.95 at full load	
Harmonic Distortion (THDi)	<5%	
Protection	Input overcurrent and surge protection with integrated fuses	
OUTPUT		
Nominal Voltage	28.5 VDC	
Nominal Current Options	400 A / 600 A / 800 A / 1000 A / 2000 A	
Overload Capability	Inominal × 2.5	
Efficiency	>95%	
Ripple & Noise	<0.8 V rms	
Regulation	Precise voltage regulation for stable DC output	
Overload Protection	Automatic current limitation with electronic protection	
GENERAL		
Galvanic Isolation	Yes	
Display	LCD Panel	
Event Log	1500 historical events	
IP Protection	IP20 (IP23-IP54 optional)	
Operating Temperature	−10 °C +55 °C	
Humidity	0 – 95% non-condensing	
PHYSICAL PROPERTIES		
Acoustic Noise	Low acoustic noise <55 dB (at 1m)	
Operation Altitude	Reliable operation up to 2000 m altitude	
COMMUNICATION		
Interfaces	RS485, Modbus, Dry Contact (alarm relay)	
STANDARDS		
Standards	EN62040-3, EN60950, ISO9001/14001, Marine Approvals (Türk Loydu, Lloyd's, RINA, BV optional)	
DIMENSION & WEIGHT		
Cabinet Dimensions (mm)	Contact us for Dimensions.	

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High Voltage DC Rectifiers 100-1500 VDC

Output Current Range 500 -5000 A













General Description -

The Seapower High Voltage Rectifier provides reliable and modular high-voltage DC rectifier systems, designed for demanding marine, defense, and industrial applications. With output voltage range up to 1000 VDC and scalable current up to 5000 A through parallel configuration, this system offers unmatched performance and flexibility. Advanced monitoring, galvanic isolation, and intelligent cooling ensure long-term reliability and operational safety.

Highlights -

- High efficiency up to 95% (size dependent)
- Output DC Voltage Range: 100 1000 VDC
- Output Current Range: 500 A 5000 A
- Modular structure with parallel redundancy (N+1)
- Galvanic isolation for safety and reliability
- Integrated soft start capability and DC bus charging
- LCD display with alarms and 1500-event historical log
- Low ripple output for sensitive loads (<1% with filtering)
- Diagnostic & self-test functions for ease of maintenance
- PLC / SCADA integration via RS485, Modbus, Dry Contact
- Marine & Industrial grade design (IP20 standard, IP23-IP54 optional)
- Low Input Current Harmonic (THDi < 5%)
- High Power Factor (PF ≥ 0.98)





High Voltage DC Rectifiers 100-1500 VDC 500-5000A

Output Current Range



TECHNICAL SPECIFICATION	IS————————————————————————————————————	
INPUT Input Voltage Range	180 – 505 VAC, 3 Phase, 47–63 Hz	
Line Variation	±5% (±10% optional)	
PF	≥ 0.98	
THDi	< 5%	
OUTPUT		
Output Voltage Range	100 – 1500 VDC (configurable)	
Output Current Range	500 A – 5000 A (scalable with parallel modules)	
Voltage Regulation	±0.5%	
Current Regulation	±0.5%	
Ripple & Noise	<0.8% typical, <1% with filtering	
Efficiency	Up to 95% (typical)	
GENERAL		
Cooling	Air cooling (intelligent fan control) or optional water cooling	
Galvanic Isolation	Yes	
Display	LCD Panel with event log (1500 records)	
IP Protection	IP20 (IP23-IP54 optional)	
Operating Temperature	−10 °C +55 °C	
Humidity	0-95% non-condensing	
Altitude	Up to 2000 m (derating above)	
Acoustic Noise	<65 dB at 1 m (air cooled)	
COMMUNICATION		
Interfaces	RS485, Modbus, Dry Contact (alarm relay)	
PROTECTIONS		
Protections	Input undervoltage, Input overvoltage, Output overload/short-circui Overtemperature, General fault alarm	
STANDARDS		
Standards	IEC/EN 62040-3, IEC/EN 60950; ISO9001/14001/45001 certified; Marine approvals optional (Türk Loydu, Lloyd's, RINA, BV)	
DIMENSION & WEIGHT		
Cabinet Dimensions (mm)	Customizable modular cabinets, containerized options available. Contact Seapower for details.	

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