

**MARPOWER®**

Power converters

# THE NEW SPC

(LIQUID-COOLED)



## NEXT-GENERATION LIQUID-COOLED SHORE POWER CONVERSION

Experience unparalleled power conversion with the new Marpower SPC. Designed with state-of-the-art liquid cooling technology, our new cutting-edge converter provides efficient, reliable, and compact shore power solutions for yachts. With global compatibility and enhanced cooling efficiency, the new Marpower SPC ensures your yacht's systems run smoothly anywhere in the world.

[marpower.com](http://marpower.com)

## KEY BENEFITS

- High-Power Density
- Hybrid Cooling Technology
- Flexible Power Management
- Space-Saving Design
- Robust and Reliable
- Modular and Scalable
- Global Shore Power Compatibility
- Enhanced Cooling Efficiency
- Clean and Stable Output Power
- Global Support



## TECHNICAL SPECIFICATIONS

### INPUT

|                       |                           |
|-----------------------|---------------------------|
| Input line voltage    | 170 - 520 V, 1 or 3 phase |
| Frequency range       | 40 - 70 Hz                |
| Input power factor    | > 0,99 at full load       |
| Input current         | 108A per power module     |
| Inrush current        | < 100% at rated current   |
| Earth leakage current | < 2 mA per power module   |

### INTERFACES/DIAGNOSTICS

|                       |                         |
|-----------------------|-------------------------|
| 5" touchscreen        |                         |
| Modbus                | RTU, TCP/IP             |
| USB                   |                         |
| Hard wired IO         | potential free contacts |
| Inrush current        | < 100% at rated current |
| Earth leakage current | < 2 mA per power module |

### MECHANICAL

| Power               | Weight | Size (H x W x D) in mm |
|---------------------|--------|------------------------|
| 75kVA* (vertical)   | 130kg  | 860 x 435 x 696        |
| 75kVA* (horizontal) | 130kg  | 395 x 800 x 696        |
| 150kVA*             | 278kg  | 950 x 800 x 696        |
| 225kVA*             | 398kg  | 1250 x 800 x 696       |
| 300kVA*             | 520kg  | 1650 x 800 x 686       |
| 375kVA*             | 640kg  | 1950 x 800 x 696       |

\* U<sub>out</sub> = 400V cos phi = 0,8

## ADVANCED FEATURES

- High Power Density: Minimizes size while maximizing power output and efficiency.
- Flexible Modular Configuration: Easily scalable to meet power demands.
- Advanced Digital Controls: Graphical 5" display for easy monitoring and control.
- Quiet and Reliable: Liquid cooling reduces noise and ensures consistent operation.
- Customizable Options: Various voltages, frequencies, and colors (RAL 9010 standard) available on request.
- Rack mounting capabilities.

### OUTPUT

|                      |   |
|----------------------|---|
| Output voltage       | 3 x 400V rms + neutral 50 Hz<br>3 x 208V rms + neutral 60 Hz<br>(other voltages and frequencies on request) |
| Nominal system power | 45kVA - 1,5MVA  |
| Nom. module power    | 45kVA / 60kVA / 75kVA at U <sub>in</sub> > 320V rms   |
| Power derating       | at input voltage 170 - 350V current limit till 108A (without liquid cooling derating till 60%)              |
| Units in parallel    | up to 20 modules  |
| Overload             | 120% 15 min<br>150% 1 min   |
| Voltage distortion   | < 3%  |
| Voltage variation    | ± 1% (at min max load)  |
| Frequency accuracy   | ± 0,05% (at fixed load)   |
| Efficiency           | >94%  |
| Cooling              | 100% liquid   |

|                   |                                      |
|-------------------|--------------------------------------|
| Cooling           | valve controlled liquid              |
| Protection degree | IP55 (higher IP value on request)    |
| Temperature       | 0-45°C, Power derating when exceeded |
| Humidity          | 0-95% non condensing                 |
| Colour            | RAL 9010 (other colours on request)  |
| Noise             | < 55dBA at 1 mtr per module          |

## READY TO UPGRADE TO THE MARPOWER LIQUID-COOLED SPC?

Whether you're equipping a new build or enhancing your existing system, the liquid-cooled SPC is the optimal choice for yachts seeking top-tier shore power conversion.

Partner with us for a smarter, greener maritime future.