

# EEI SPC SERIES

## SHORE POWER CONVERTER

EEI Power Systems shore power converters allow full operation of the vessels on board electrical system without generators. Connection to the shore can be via one or multiple cords thanks to the modular design of the SPC input stage. Thanks to the input transformers shore power is isolated to avoid tripping shore earth leakage circuit breakers. Voltage back conversion to the desired AC voltage and frequency for the vessel is fully filtered and stable, suitable for onboard loads.

Totally seamless power transfer from vessel generator to shore and vice versa is possible according to the high precision synchronization function.

### COMPACT AND MODULAR

Thanks to its modular structure SPC can be located in several locations when the available space is fragmented or in the same place when it's possible. Furthermore the modular design along with compact dimensions allow to customize the system, matching customer needs.



### SUITABLE FOR MARINE ENVIRONMENT

Coated print circuit boards, appropriate protection degree, stainless steel, all it needs for marine environment.

### WIDE INPUT RANGE

LV /MV solutions

### FUNCTIONAL FEATURES

- Multiple shore cords: thanks to modular structure it is possible the connection to several shore cords without restriction. (no pre assigned master connection).
- Seamless Transfer: power transfer from shore to vessel and vice versa.
- Remote touch panel control
- Other options can be implemented on demand thanks to our staff

### COMPREHENSIVE PRODUCT LINE

EEI Marine Division designs and manufactures power conversion equipment for commercial, military and marine applications. Our products are suitable for modular systems from 60 kVA up to 500 kVA.

**ADVANCED**  
Flexible software configuration  
allow wide functionalities



**ADAPTIVE**  
Wide product range LV  
and MV solutions



**RELIABLE**  
Equipped with latest power technology and  
design with more than 40 years of experience



**ROBUST**  
Suitable for marine  
environment





MODEL	SPC 60	SPC 125	SPC 300	SPC 500
<b>SHORE SIDE INPUT</b>				
Type	3 Ph	3 Ph	3 Ph	3 Ph
Voltage	208 - 520 Vac	208 - 520 Vac	340 - 520 Vac	340 - 520 Vac
Max. current	100 A	200 A	480 A	800 A
Frequency	40-70 Hz	40-70 Hz	40-70 Hz	40-70 Hz
Power Factor	Unitary	Unitary	Unitary	Unitary
THD I	< 3%	< 3%	< 3%	< 3%

<b>LOAD SHIP SIDE OUTPUT</b>				
Type	3 Ph+N	3 Ph+N	3 Ph+N	3 Ph+N
Voltage	400 / 480 Vac	400 / 480 Vac	400 / 480 Vac	400 / 480 Vac
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power rating	60 kVA @ 0,85 pf	125 kVA @ 0,85 pf	300 kVA @ 0,85pf	500 kVA @ 0,85pf
Current	90 A @ 400 Vac / 75 A @ 480 Vac	180 A @ 400 Vac / 150 A @ 480 Vac	435 A @ 400 Vac / 360 A @ 480 Vac	720 A @ 400 Vac / 600 A @ 480 Vac
THD V	< 2%	< 2%	< 2%	< 2%
Efficiency	> 94%	> 94%	> 94%	> 94%
Mechanical	1000 x 1300 x 800	1200 x 1300 x 800 or 650 x 1920 x 800	2000 x 1600 x 1000	2000 x 1600 x 1000
Protection degree	IP 43	IP 43	IP 43	IP 43
Cooling	Water cooled	Water cooled	Water cooled	Water cooled

<b>ENVIRONMENTAL CONDITIONS</b>				
Temperature	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C
Humidity	0 - 95% non condensing	0 - 95% non condensing	0 - 95% non condensing	0 - 95% non condensing