



MARINE POWER SYSTEMS CATALOG

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INTRODUCTION

As a leading manufacturer of electrical solutions for the marine industry, ANG Power Systems specializes in the production of shore power converters, isolation boost transformers, automatic voltage regulators and stabilizers, high quality marine adapters, marine power cables, connectors, plugs, receptacles, and inlets.

With a dedication to delivering the most advanced, reliable, and accurate marine power systems, ANG's products use state-of-the-art components resulting in a smaller and lighter footprint than competing products. Located in the heart of Ft. Lauderdale, "The Yachting Capital of the World", our expert technical staff is always available to offer innovative and reliable solutions to meet your yacht's power needs.

HEADQUARTERS

3200 S. Andrews Ave, Suite 207, Fort Lauderdale, FL 33316

WORKSHOP

Lauderdale Marine Center LMC
2005 SW 20th St, Fort Lauderdale, FL 33315

HOURS

MON – FRI 9:00am – 6:00pm EST

CONTACT

+1 (954) 368-3214 (US)
+39 335.6756169 (Europe)



ANG SHORE POWER CONVERTERS

PLUG-IN AT ANY DOCK IN THE WORLD

ANG SHORE POWER CONVERTERS™ carry over 30 years of experience in marine electrical conversion and are able to supply the correct shore power when connected to the most common dockside voltages. All our converters are universal. They accept any input power and are able to convert frequency, voltage and phase into what is needed for your yacht's electrical system.

All ANG Three-Phase Converters allow the yacht to be connected to Single-Phase or Three-Phase through the same shore power cord. The power can be supplied even if the Form (Phase) requested for the boat is not available. This is a unique feature that only ANG Converters are able to provide.

The output power of ANG SHORE POWER CONVERTERS™ has a superior quality than the shore voltage supply since they ensure a pure sinusoidal wave. All models operate at a nominal voltage with +/- 10% tolerance.



Upon request, we offer custom cabinet construction, to fit your available space.



ANG SHORE POWER CONVERTERS

AVAILABLE FROM 3Kva TO 150Kva

Ensuring reliable, worry free power supply regardless of where you cruise.

UNIVERSAL INPUT

ANG Shore Power Converters accept any frequency from 45Hz to 70Hz, any voltage from 110V to 520V, any input form Single and/or Three Phase (European and American standards) and they convert to the voltage, phase and frequency needed for your boat, 50 or 60Hz.

FEATURE RICH

All ANG Shore Power Converter models are fitted with isolation transformers, data displays, input & output metering, auto-restart, tropicalization circuits, over-temperature, overload, and over-voltage protections.

BUILT TO LAST

ANG Shore Power Converters are provided with single or dual input, forced cooling, weather sealed electronic system, and aluminum construction (anti-rust) to ensure reliable long-term operation.

SIZE & CUSTOMIZABILITY

Our converters are some of the smallest and lightest available on the market today. Upon request, we offer custom cabinets construction to fit your yacht's available space as well as enhanced weather sealing and remote operation.

Main Features

- SMALLEST & LIGHTEST ON THE MARKET
- AUTO-RANGING / MULTI-VOLTAGE INPUT
- INTEGRATED ISOLATION TRANSFORMER
- SINGLE OR DUAL CORD
- DATA DISPLAY
- INPUT AND OUTPUT METERING
- LOW OPERATIONAL TEMPERATURE
- NO ADDITIONAL COOLING REQUIRED
- EASY AND LOW COST INSTALLATION
- REUSABLE & RE-INSTALLABLE
- AUTO-RESTART
- NOISELESS
- OVERLOAD, OVER-TEMPERATURE, AND OVER-VOLTAGE
- WEATHER SEALED ELECTRONICS
- ALUMINUM CONSTRUCTION | ANTI RUST
- IP21 PROTECTION

OPTIONAL

- CUSTOM CABINET DIMENSIONS
- RS-232 OR ETHERNET REMOTE TOUCH PANEL
- IP54 OUTDOOR PROTECTION

ANG SHORE POWER CONVERTERS

SINGLE PHASE TECHNICAL SPECIFICATIONS

SPC Single Phase	SPC 7,5	SPC 10	SPC 12.5	SPC 15	SPC 18	SPC 20 modular	SPC 25 modular
Power (Kva)	7,5 Kva	10 Kva	12.5 Kva	15 Kva	18 KVA	20 Kva	25 Kva
Input Voltage (Vac)	200V - 260V	200V - 260V	200V - 260V	200V - 260V	200V - 260V	200V - 260V	200V - 260V
Auto Ranging	YES	YES	YES	YES	YES	YES	YES
Input Connection (Single or Dual Cord)	Single cord	Single cord	Single cord	Single cord	Single cord	Single cord	Single cord
Input Form	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Output Connection	Single cord	Single cord	Single or dual cord	Single or dual cord	Single or dual cord	Single or dual cord	Single or dual cord
Input Frequency (Hz)	45-70 Hz	45-70Hz	45-70 Hz	45-70Hz	45-70 Hz	45-70 Hz	45-70 Hz
Output Voltage EU	230V (+/- 5%)	230V (+/- 5%)	230V (+/- 5%)	230V (+/- 5%)	230V (+/- 5%)	230V (+/- 5%)	230V (+/- 10%)
Output Voltage US	120V or 120/240V+N+G	120/240V+N+G	120/240V+N+G	120/240V+N+G	120/240V+N+G	120/240V+N+G	120/240V+N+G
Auto-Settings	YES	YES	YES	YES	YES	YES	YES
Output Current (Amp)	32/64Amp	43 Amp	52 Amp	63 Amp	78 Amp	87 Amp	104 Amp
Output Frequency (Hz)	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Wave Form Sinusoidal (THD in linear load)	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%
Operation Temperature	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C
Humidity Not Condensed	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%
Noise Level (Dba)	45	45	45	45	45	45	45
Display Data and Alarms	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40
Isolation Transformer	YES	YES	YES	YES	YES	YES	YES
Electronics Protection	YES	YES	YES	YES	YES	YES	YES
Autorestart	YES	YES	YES	YES	YES	YES	YES
Tropicalization Circuits	YES	YES	YES	YES	YES	YES	YES
Cooling	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED
Communication	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet
Aluminum construction	YES	YES	YES	YES	YES	YES	YES
Degree of Protection	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21
Cabinet	Single	Single	Single	Single	Single	Dual	Dual
Approx. Weight (lbs/kg)	110 lbs / 47kg	143 lbs / 65kg	165 lbs / 77kg	189 lbs / 86 kg	207 lbs / 94 kg	242 lbs / 110 kg	295 lbs/134 kg
Dimensions (cm) W x L x H	36 x 46 x 36	42 x 46 x 50	42 x 46 x 50	42 x 46 x 50	42 x 46 x 50	42 x 46 x 50 42 x 53x 36	42 x 46 x 50 42 x 53x 36
Dimensions (Inch) W x L x H	14.3 x 18 x 14,3	16.5 x 18 x 20	16.5 x 18 x 20	16.5 x 18 x 20	16.5 x 21 x 20	16.5 x 18 x 20 16.5 x 21 x 14.3	16.5 x 18 x 20 16.5 x 21 x 14.3



ANG SHORE POWER CONVERTERS

THREE PHASE TECHNICAL SPECIFICATIONS

SPCT Three Phase	SPCT 30 modular	SPCT 37 modular	SPCT 40 modular	SPCT 45 modular	SPCT 50 modular	SPCT 60 modular	SPCT 75 modular	SPCT 80 modular	SPCT 90 modular	SPCT 100 modular	SPCT 125 modular	SPCT 150 modular
Power (Kva)	30 Kva	37 Kva	40 Kva	45 Kva	50 Kva	60 Kva	75 Kva	80 Kva	90 Kva	100 Kva	125 Kva	150 Kva
Input Voltage (Vac)	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190V - 520V	190v - 520V
Auto Ranging	YES	YES	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%
Input form	Single or Three Phase	Single or Three Phase	Single or Three Phase	Single or Three Phase	Single or Three Phase	Single or three phase	Single or three phase	Single or three phase	Single or three phase	Single or three phase	Three Phase	Three Phase
Input Connection	Single or dual cord	Single or dual cord	Single or dual cord	Single or dual cord	Single or dual cord	Single or Dual Cord	Single or Dual Cord	Single or Dual Cord	Single or Dual Cord	Single or Dual Cord	Single or dual cord	Single or dual cord
Input Frequency (Hz)	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70 Hz	45-70Hz	45-70Hz
Output form	Single or Three Phase	Single or Three Phase	Single or Three Phase	Single or Three Phase	Single or Three Phase	Three Phase	Three Phase	Three Phase	Three Phase	Three Phase	Three Phase	Three Phase
Auto-Settings	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Output Current (Amp)	1x125 Amp single phase or 3x24A @380V or 3x84A @208V	1x150 Amp single phase or 3x52A @380V or 3x102A @208V	1x163 Amp single phase or 3x58A @380V or 3x116A @208V	1x185 Amp single phase or 3x65A @380V or 3x130A @208V	3x72A @380V or 3x140A @208V	3x86A @380V or 3x175A @208V	3x108A @380V or 3x210A @208V	3x115A @380V or 3x230A @208V	3x130A @380V or 3x250A @208V	3x144A @380V or 3x285A @208V	3x178A @380V or 3x350A @208V	3x210A @380V or 3x420A @208V
Output Frequency (Hz)	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50/60Hz	50/60Hz
Wave Form Sinusoidal (THD in linear load)	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%	< 2%
Operation Temperature	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C
Humidity Not Condensed	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%	0-95%
Noise Level (Dba)	45	45	50	50	50	55	55	55	55	55	55	55
Display Data and Alarms	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40	LED and LCD 4x40
Isolation Transformer	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Electronics Protection	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Autorestart	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Tropicalization Circuits	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Cooling	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED	FORCED
Aluminum construction	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Optional Communication	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet	RS 232 / Ethernet
Degree of Protection	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21
Cabinet	Dual	Dual	Dual	Dual	Dual	Quad	Quad	Quad	Quad	Quad	Three	Three
Approx. Total Weight (lbs/kg)	551 lbs/250 kg	601 lbs/273 kg	656 lbs/298 kg	705 lbs/320 kg	837 lbs/380 kg	1091 lbs/495 kg	1203 lbs/546 kg	1313 lbs/596 kg	1410 lbs/640 kg	1675 lbs/760 kg	1962 lbs/890 kg	2193 lbs/995 kg
Electronic Module cm: W x L x H	42 x 53 x 84	42 x 53 x 84	42 x 53 x 84	42 x 53 x 105	42 x 53 x 105	Master 42 x 53 x 84 Slave 42 x 53 x 84	Master 42 x 53 x 84 Slave 42 x 53 x 84	Master 42 x 53 x 84 Slave 42 x 53 x 84	Master 42 x 53 x 105 Slave 42 x 53 x 105	Master 42 x 53 x 105 Slave 42 x 53 x 105	120 x 60 x 138	120 x 60 x 138
Electronic Module in: W x L x H	16.5 x 21 x 33	16.5 x 21 x 33	16.5 x 21 x 33	16.5 x 21 x 41.3	16.5 x 21 x 41.3	Master 16.5 x 21 x 33 Slave 16.5 x 21 x 33	Master 16.5 x 21 x 33 Slave 16.5 x 21 x 33	Master 16.5 x 21 x 33 Slave 16.5 x 21 x 33	Master 16.5 x 21 x 41.3 Slave 16.5 x 21 x 41.3	Master 16.5 x 21 x 41.3 Slave 16.5 x 21 x 41.3	47.24 x 23.62 x 54.33	47.24 x 23.62 x 54.33
Transformer Module cm: W x L x H	42 x 53 x 60	42 x 53 x 60	42 x 53 x 60	42 x 53 x 60	42 x 60 x 60	2x input transformers modules 42 x 53 x 60	2x input transformers modules 42 x 53 x 60	2x input transformers modules 42 x 53 x 60	2x input transformers modules 42 x 53 x 60	2x input transformers modules 42 x 53 x 66	2x input transformers modules 42 x 53 x 105	2x input transformers modules 42 x 53 x 105
Transformer Module in: W x L x H	16.5 x 21 x 23.6	16.5 x 21 x 23.6	16.5 x 21 x 23.6	16.6 x 21 x 23.6	16.5 x 23.6 x 23.6	2x input transformers modules 16.5 x 21 x 23.6	2x input transformers modules 16.5 x 21 x 23.6	2x input transformers modules 16.5 x 21 x 23.6	2x input transformers modules 16.5 x 21 x 23.6	2x input transformers modules 16.5 x 23.6 x 26	2x input transformers modules 16.5 x 23.6 x 41	2x input transformers modules 16.5 x 23.6 x 41
Automatic input paralleling box	-	-	-	-	-	YES	YES	YES	YES	YES	YES	YES
Seamless system	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request
SPCT-M Series (single phase output)	YES	YES	YES	YES	YES	-	-	-	-	-	-	-



ANG OUTLETS SHORE POWER CONVERTERS

SECONDARY CONVERTERS FOR ONBOARD WALL OUTLETS

ANG OUTLET SHORE POWER (CONVENIENCE) CONVERTERS are specifically designed for power conversion needs of your yacht's interior wall outlets.

They are available in a wide range of power and in single and three phase versions. These secondary frequency converters are installed on board and used to power equipment that has different voltage and frequency requirements than what your yacht's electrical system can provide.

This could include a European 230V/50Hz power supply for US yacht cabins or a US 120V/60Hz power supply for European yachts.

Additionally, they offer added flexibility to utilize locally sourced appliances, as well as power specialized gear like tenders and other pieces of equipment that need an alternate supply source.

Outlet Frequency Conversion Made Easy

- CONTINUOUS AND AUTOMATIC OPERATION
- OUTPUT POWER GUARANTEED
- VIRTUALLY SILENT (20DBA OPERATION)
- CLEAN SINUSOIDAL OUTPUT (<1%)
- NO INTERFERENCE WITH SENSITIVE EQUIPMENT
- AUTO RESTART
- TROPICALIZATION CIRCUITS
- FORCED COOLING



ANG OUTLETS SHORE POWER CONVERTERS

TECHNICAL SPECIFICATIONS

SINGLE PHASE CONVENIENCE CONVERTERS - OSPC SERIES

OSPC Single Phase	OSPC 3	OSPC 5	OSPC 7.5	OSPC 10
Power (Kw)	3 Kva	5 Kva	7.5 Kva	10 Kw
Input Voltage (Vac)	230V - 240V	230V - 240V	230V - 240V	230V - 240V
Auto Ranging	+/- 5%	+/- 5%	+/- 5%	+/- 5%
Input Connection	Single cord	Single cord	Single cord	Single cord
Output Connection	Single cord	Single cord	Single cord	Single cord
Input Frequency (Hz)	50 or 60 Hz			
Output Voltage EU	230V	230V	230V	230V
Output Voltage US	120V	120V	120V	120V
Auto-Settings	YES	YES	YES	YES
Output Current (Amp)	13/26 Amp	22/44 Amp	34/68 Amp	44/88 Amp
Output Frequency (Hz)	50 or 60 Hz			
Efficiency at Full Load	92%	92%	92%	92%
Wave Form Sinusoidal (THD in linear load)	< 2%	< 2%	< 2%	< 2%
Operation Temperature	0-50°	0-50°	0-50°	0-50°
Humidity Not Condensed	0-95%	0-95%	0-95%	0-95%
Noise Level (Dba)	20	20	20	25
Display Data and Alarms	Display data and alarm			
Isolation Transformer	YES	YES	YES	YES
Electronics Protection	YES	YES	YES	YES
Autorestart	YES	YES	YES	YES
Tropicalization Circuits	YES	YES	YES	YES
Cooling	FORCED	FORCED	FORCED	FORCED
Degree of Protection	IP 21	IP 21	IP 21	IP 21
Approx. Weight (lbs/kg)	56 lbs / 25 kg	71 lbs / 32 kg	90 lbs / 41 kg	137 lbs / 62 kg
Modules	Single module	Single module	Single module	Single module
Dimensions (cm) L x h x W	51 x 18 x 42	51 x 18 x 42	51 x 18 x 42	46 x 50 x 42
Dimensions (Inch) L x h x W	20 x x 7 x 16.5	20 x 7 x 16.5	20 x 7 x 16.5	18.2 x 20 x 16.5

THREE PHASE CONVENIENCE CONVERTERS - OSPCT SERIES

OSPCT Three Phase	OSPCT 6	OSPCT 10	OSPCT 12.5	OSPCT 15	OSPCT 18
Power (Kw)	6 Kva	10 Kva	12.5 Kva	15 Kva	18Kva
Input Voltage three phase (Vac)	220V / 380V + N				
Auto Ranging	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%
Input Connection	Single cord				
Output Connection	Single cord				
Input Frequency (Hz)	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60Hz
Output Voltage US	120V	120V	120V	120V	120V
Auto-Settings	YES	YES	YES	YES	YES
Output Current (Amp)	52 Amp	88 Amp	100 Amp	125 Amp	150 Amp
Output Frequency (Hz)	60 Hz	60 Hz	60 Hz	60 Hz	60Hz
Efficiency at Full Load	92%	92%	92%	92%	92%
Wave Form Sinusoidal (THD in linear load)	< 2%	< 2%	< 2%	< 2%	< 2%
Operation Temperature	0-50°	0-50°	0-50°	0-50°	0-50°
Humidity Not Condensed	0-95%	0-95%	0-95%	0-95%	0-95%
Noise Level (Dba)	20	20	25	25	30
Display Data and Alarms	Display data alarm				
Isolation Transformer	YES	YES	YES	YES	YES
Electronics Protection	YES	YES	YES	YES	YES
Autorestart	YES	YES	YES	YES	YES
Tropicalization Circuits	YES	YES	YES	YES	YES
Cooling	FORCED	FORCED	FORCED	FORCED	FORCED
Degree of Protection	IP 21				
Approx. Weight (lbs/kg)	90 lbs / 41 kg	101 lbs / 46 kg	114 lbs / 52 kg	132 lbs / 60 kg	174 lbs / 79 kg
Modules (Electronic with auto Transformer)	Single module				
Dimensions (cm) L x h x W	46 x 50 x 42				
Dimensions (Inch) L x h x W	18 x 20 x 16.5	18 x 20 x 16,5			

ANG ISO-BOOST TRANSFORMERS

NEW EVOLUTION VERSION Same exceptional features in a lighter version, smaller dimensions, and updated display panel.

If you're looking for a way to keep your yacht's onboard equipment running smoothly, the ANG Isolation Boost Transformer (ISO-BOOST™) is perfect for you. Featuring an isolation transformer with a boost voltage increase circuit, it is designed to provide the correct line voltage automatically to your yacht's electrical system, offering complete safety and protection from damage due to excessive voltage increases and unexpected shutdowns because of voltage drops.

The perfect replacement for Charles Iso-Boost Transformers, ANG ISO-BOOST™ Transformers are lighter, include more features as standard, are available in five (5) models, and come equipped with toroidal transformers.

Compared to traditional laminated transformers, a toroidal transformer offers many benefits including higher efficiency, a more compact size, lower operating temperatures and near silent operation (no vibration or hum).

As an added benefit, ANG ISO-BOOST™ Transformers offer three steps of boost (1st step at 15%, 2nd step at 7.5%, and 3rd step at +6Vac non boost mode) while Charles Iso-Boost systems only had two steps. The ANG ISO-BOOST™ steps are adjustable, a feature not available on Charles Iso-Boost transformers.

Our ISO-BOOST™ static system with seamless technology includes soft start, auto-restart and by-pass systems as standard features ensuring the protection of all your marine electrical equipment.



COMPETITORS COMPARISON CHART

FEATURES	ANG ISO-BOOST™	CHARLES ISO-BOOST	COMPETITORS
Frequency Range	50Hz and 60Hz	60Hz	60Hz
Steps	Three (3) Steps	Two (2) Steps	Two (3) Steps
Transformer	Toroidal	Traditional	Traditional
Transformer Efficiency	100% at any step	100% only at 240V	100% only at 240V
Soft Start	YES (Integrated)	Optional	Optional
Auto restart	YES (Integrated)	Optional	No after High voltage
By-Pass	YES (Integrated)	Optional	No
Electronic Switching	Seamless System (no blackout during the switching)	Mechanical Contactors	Mechanical Contactors (15 sec blackout during switching)
High Voltage Protection	Protection engage at 258V	- -	Protection engage at 270V
Models Available	5	2	2
Weight	Lighter	Heavier	Lighter

ANG ISO-BOOST TRANSFORMERS

SEAMLESS SYSTEM

ANG ISO-BOOST™ offers a SEAMLESS Transfer System to avoid power interruption during switching. The system automatically chooses the optimal point of switching without loss of power.

SOFT START

Our Soft Start System assures minimal current in-rush during system power-up.

OVERLOAD ENDURANCE

ANG ISO-BOOST™ is designed to withstand 30% overload for at least one hour.

ELECTRICAL PROTECTION

ANG ISO-BOOST™ comes with a protective shield. The shore grounding conductor is connected to a shield between primary (shore) and secondary (boat) transformer windings. This shield assures isolation on the boat for electrical protection.

FULL OUTPUT POWER GUARANTEED

ANG ISO-BOOST™ ensures full output power even in boost mode. The output voltage is always stable.

AUTOMATIC THERMAL PROTECTION

ANG ISO-BOOST™ is provided with thermal protection that automatically shuts down the system. The unit will automatically restart when temperatures return to safe operating levels.

MANUAL BY-PASS

ANG ISO-BOOST™ is provided with a manual by-pass system that allows you to disconnect the Boost increase circuit in case of breakdown. This ensures you don't experience any power loss while maintaining isolation protection of your yacht's electrical system.

ANG ISO-BOOST™ EUROPEAN VERSION

Available in 9 kVA and 18 kVA these ANG ISO-BOOST™ Transformers have the same features of the US version, but suitable for European boats.

AUTO RESTART

ANG ISO-BOOST™ automatically restart after high voltage, low voltage, blackout, and overload. ANG ISO-BOOST™ is equipped with very low peak transformers.

COOLING

The ANG ISO-BOOST™ is provided with a forced cooling fan system ensuring optimal performance and longevity of electrical components.

STATIC SYSTEM

The static switch system is extremely low-maintenance requiring only filter cleaning.



2X ANG ISO-BOOST™ 25Kva installed on a Westport.

ANG ISO-BOOST TRANSFORMERS

FUNCTIONS & DISPLAY PANEL

ANG ISO-BOOST™ covers a wide voltage range gradually increasing the output voltage.

ANG ISO-BOOST™ is designed to power the boat from a nominal voltage of 120/240 V with three operating thresholds:

STEP 1 | 15%

Shore voltage from 178 to 209 V (+/- 3V)
Output voltage from 210 to 240 V (+/- 3V)

STEP 2 | 7.5%

Shore voltage from 210 to 227 V (+/- 3V)
Output voltage from 224 to 242 V (+/- 3V)

STEP 3 | +6VAC

Shore voltage from 228 to 253 V (+/- 3V)
Output voltage from 228 to 258 V (+/- 3V)

ANG ISO-BOOST™ guarantees the maximum output current even in boost mode.

If the input voltage is less than 178V or higher than 258V, the output is deactivated.



ANG ISO-BOOST™ provides the LED/Display Control Panel that indicates the operating status of the equipment.

The LED lights indicate the operating status of the ANG ISO-BOOST™

OVER TEMPERATURE: RED LED LIGHT

Thermal protection automatically shuts down the system until the temperature returns to safe operating level.

LOW VOLTAGE: SOLID RED LED LIGHT

Shore input Voltage below 178VAC, the system shuts down to protect the boat's electrical system.

HIGH VOLTAGE: FLASHING RED LED LIGHT

Shore Input Voltage over 258VAC, the system shuts down to protect the boat's electrical system.

BY-PASS: RED LED LIGHT

Manual By-Pass ON, NON-Boost Mode, Boat Voltage equals Shore Voltage, Isolation Transformer ON.

POWER: GREEN LED LIGHT

Non-Boost mode, Boat Voltage equals Shore Voltage.

BOOST 7.5%: YELLOW LED LIGHT

Boost Mode ON.

BOOST 15%: YELLOW LED LIGHT

Boost Mode ON.

The display panel shows a rotation of a series of information every 5 seconds:

1st Screen - V Line (Input Voltage) & Power (kVA)

2nd Screen - Current (Input AMP) & Frequency (Input/output)

3rd Screen - OUTPUT (RMS Voltage)

ANG ISO-BOOST TRANSFORMERS

TECHNICAL SPECIFICATIONS

ANG Boost	12.5 kVa	15 kVa	18 kVa	25 kVa	30 kVa
Input Current (A)	52	62.5	74.8	104	125
Input Voltage (Vac)	from 178V to 255V				
Boost Voltage Correction	+15%,+7.5% 1/1	+15%,+7.5% 1/1	+15%,+7.5% 1/1	+15%,+7.5% 1/1	+15%,+7.5% 1/1
Operating Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Output Voltage nominal (Vac)	120 240	120 240	120 240	120 240	120 240
Output Current Boost Mode (A) 15%	44	53	64	89	106
Output Current No Boost (A)	50.5	60.6	73	100	121
Input Connection (Terminal Block)	L1A+L2A+SH (GND)				
Output Connection (Terminal Block)	L1B+L2B+N+GND	L1B+L2B+N+GND	L1B+L2B+N+GND	L1B+L2B+N+GND	L1B+L2B+N+GND
kVA Continuous	12.1	14.5	17.5	24	29
Automatic Thermal Protection	110 °C				
Operation Temperature (°C)	0-50°C	0-50°C	0-50°C	0-50°C	0-50°C
Noise Level (Dba)	30	30	30	35	35
Degree of Protection	IP 21				
Seamless Technology	YES	YES	YES	YES	YES
Soft Start	YES	YES	YES	YES	YES
Manual by-pass	YES	YES	YES	YES	YES
Alarms: Over Temperature Over Voltage/Low Voltage	YES	YES	YES	YES	YES
Display Data and Alarm 6 x 16	YES	YES	YES	YES	YES
Aluminium enclosure/Antirust	YES	YES	YES	YES	YES
Cooling	Forced	Forced	Forced	Forced	Forced
Approximate Weight (lbs/kg)	138 lbs 63kg	152 lbs 69 kg	172 lbs 78 kg	253 lbs 115 kg	275 lbs 125kg
Length (inches/cm)	18 in 46 cm				
Width (inches/cm)	14 in 36 cm	14 in 36 cm	14 in 36 cm	16.5 in 42 cm	16.5 in 42 cm
Height (inches/cm)	14 in 36 cm	14 in 36 cm	14 in 36 cm	19.7 in 50 cm	19.7 in 50 cm
Auto Restart	YES	YES	YES	YES	YES
Isolation Transformer	YES	YES	YES	YES	YES
Isolation Transformer Class	H	H	H	H	H
Low Peak Transformer	YES	YES	YES	YES	YES
Paralleling	Optional	Optional	Optional	Optional	Optional

ANG TRANSFORMERS

AUTO RANGING THREE PHASE TRANSFORMERS

Our line of Auto Ranging Transformers are expressly crafted for yacht owners who want to plug into any three-phase dock but don't need to change frequency and form (single phase). Uniquely, our Auto Ranging Transformers are able to connect to any existing three phase shore power voltage and automatically supply your yacht with the required three phase voltage.

Available in three phase, this transformer will adapt to the voltage of any dock pedestal and run your boat safely.



Technical Sheet	
Power	from 25 to 500 Kw
Auto Setting	YES
Input Frequency	50 or 60Hz
Output Frequency	50 or 60Hz
Auto Ranging Input voltage	120V/208V - 127V/220V - 230V/400V 255V/440V - 277V/480V
Input Form	Three Phase
Output Voltage	120V/208V - 127V/220V - 230V/400V 255V/440V - 277V/480V
Output form	Three Phase
Input Connections	Terminal Block
Output Connections	Terminal Block
SLP Surge protection	YES
Isolation transformer	YES
Protection	Overload, over voltage, over temperature
Auto-restart	YES
Cooling	Forced
Display Data and Alarms	Led and LCD
Degree of protection	IP 21
Enclosure	Aluminum
Efficiency at full load	99%
Output Power Guarantee	100%
Operation Temperature	0-50°C
Humidity not condensed	0-95%
Noise Level (dba)	35db
Weather sealed electronic system	YES

AUTOMATIC PARALLELING CONTROLLER

Our ANG Smart-Y Controller allows you to safely connect your boat's 100Amp 120/240V single phase shore power cord to two 50Amp 120/240V dock pedestal receptacles. Housed in an IP56 rated fiberglass enclosure, the Smart-Y is capable of withstanding harsh marine environments, ensuring worry-free operation.

The unit will automatically check the phase of the two 50A connections and correct them when necessary to make a safe parallel connection.

INPUT (Single Phase)
Two 50A 120/240V 60Hz

OUTPUT (Single Phase)
One 100A 120/240V 60Hz

LED LIGHT INDICATOR FUNCTIONS

LED LIGHT STATUS	FUNCTIONS
YELLOW LED BLINKING	CONNECTED SHORE CORD 1 ONLY
ALL LED OFF	CONNECTED SHORE CORD 2 ONLY
YELLOW LED ON	CONNECTED SHORE CORD 1 & 2
YELLOW & GREEN LED ON	SHORE CORD 1 & 2 IN PHASE
YELLOW, GREEN & RED LED ON	SHORE CORD 1 & 2 NOT IN PHASE
RED LED BLINKING	SHORE CORD 1 & 2 INCOMPATIBLE



Unit may not work on docks with GFCI protection.
Always connect and disconnect both 50 Amp 120/240V cables at the same time.
DO NOT USE Smart-Y if a transformer or converter is not installed on board.
DO NOT USE with one 50 Amp only.
CAUTION - risk of electric shock. NEVER TOUCH EXPOSED PLUG BLADES IF THE OTHER IS CONNECTED.

ANG SPLITTER

DOCKSIDE MARINE POWER SPLITTER

If your boat has twin 50A shore power connections, our ANG Splitter will allow you to safely connect your boat's two 50Amp 120/240V shore power cords to a single 100Amp 120/240V dock pedestal receptacle. Same as our Smart-Y, the ANG Splitter is housed in an IP56 rated fiberglass enclosure, capable of withstanding harsh marine environments.

INPUT (Single Phase)
Two 50A 120/240V 60Hz

OUTPUT (Single Phase)
One 100A 120/240V 60Hz



Both the ANG Smart-Y and the ANG Splitter are provided with all the necessary Cables, Connectors, and Plugs.



PIGTAIL ADAPTERS & CABLE SETS

CUSTOM MADE PIGTAIL ADAPTERS & CABLE SETS

Available upon request from 16A to 125A Single & 3 Phase



AMERICAN 100A IP67 UL CE

PLUG – 100A 120/208V – 3 PHASE	CONNECTOR – 100A 125/250V – SINGLE PHASE
PLUG – 100A 120/208V – 3 PHASE	CONNECTOR – 100A 277/480V – 3 PHASE
PLUG – 100A 277/480V – 3 PHASE	CONNECTOR – 100A 120/208V – 3 PHASE
PLUG – 100A 277/480V – 3 PHASE	CONNECTOR – 100A 125/250V – SINGLE PHASE
PLUG – 100A 125/250V – SINGLE PHASE	CONNECTOR – 100A 120/208V – 3 PHASE
PLUG – 100A 125/250V – SINGLE PHASE	CONNECTOR – 100A 277/480V – 3 PHASE

EUROPE IP67 UL CE

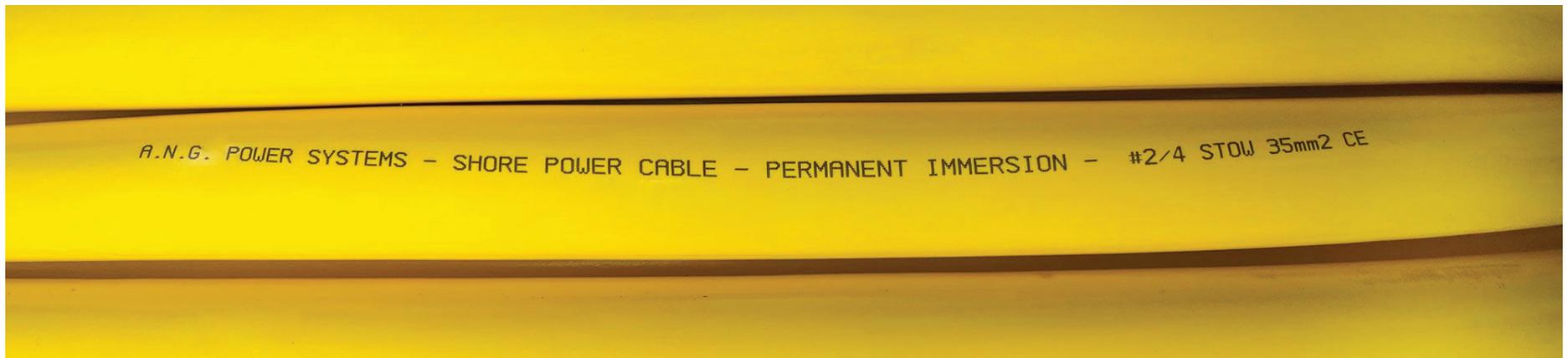
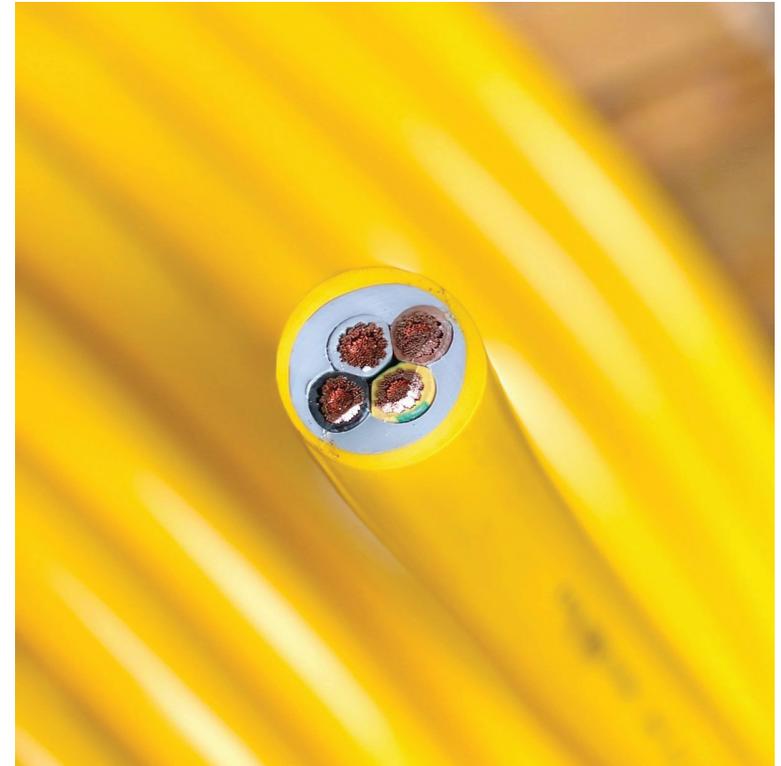
PLUG – 125A 380/415V – 3 PHASE	CONNECTOR – 100A 277/480V – 3 PHASE
PLUG – 125A 380/415V – 3 PHASE	CONNECTOR – 100A 120/208V – 3 PHASE
PLUG – 125A 380/415V – 3 PHASE	CONNECTOR – 2x100A 120/208V – 3 PHASE
PLUG – 125A 380/415V – 3 PHASE	CONNECTOR – 2x63A 120/208V – SINGLE PHASE
PLUG – 63A 380/415V – 3 PHASE	CONNECTOR – 100A 120/208V – 3 PHASE
PLUG – 63A 380/415V – 3 PHASE	CONNECTOR – 100A 277/480V – 3 PHASE

ANG MARINE SHORE CORDS

HIGH QUALITY 100A SHORE CORDS

Exceptionally Made In Italy

Built to our exacting specifications, our marine shore power cables are available in 100A 4 wire, 100A 3 wire, and 35mm², double isolation, permanent immersion, yellow.



CONNECTORS & PLUGS

ANG HD SERIES

North America Ratings 100A



WATERTIGHT - IP67								
Poles & Wires	Configuration			Voltage/ Colour Coding	Plug	Connector	Receptacle	Inlet
	Receptacle/ Connector	Plug/Inlet	Clock position					
2P 3W			4h	125	SCM3100P4W	SCM3100C4W	SCM3100R4W	SCM3100B4W
2P 3W			6h	250	SCM3100P6W	SCM3100C6W	SCM3100R6W	SCM3100B6W
2P 3W			5h	277	SCM3100P5W	SCM3100C5W	SCM3100R5W	SCM3100B5W
2P 3W			7h	480	SCM3100P7W	SCM3100C7W	SCM3100R7W	SCM3100B7W
3P 4W			12h	125/250	SCM4100P12W	SCM4100C12W	SCM4100R12W	SCM4100B12W
3P 4W			9h	3ø250	SCM4100P9W	SCM4100C9W	SCM4100R9W	SCM4100B9W
3P 4W			6h	380-415	SCM4100P6W	SCM4100C6W	SCM4100R6W	SCM4100B6W
3P 4W			7h	3ø480	SCM4100P7W	SCM4100C7W	SCM4100R7W	SCM4100B7W
3P 4W			5h	3ø600	SCM4100P5W	SCM4100C5W	SCM4100R5W	SCM4100B5W
4P 5W			9h	3øY120/208	SCM5100P9W	SCM5100C9W	SCM5100R9W	SCM5100B9W
4P 5W			6h	220/380 240/415	SCM5100P6W	SCM5100C6W	SCM5100R6W	SCM5100B6W
4P 5W			7h	3øY277/480	SCM5100P7W	SCM5100C7W	SCM5100R7W	SCM5100B7W
4P 5W			5h	3øY347/600	SCM5100P5W	SCM5100C5W	SCM5100R5W	SCM5100B5W

SERVICE & SUPPORT

SUPPORT, ASSISTANCE & CONSULTING

ANG Worldwide Marine Power Systems are manufactured to be durable, virtually maintenance free, and easily serviceable. Our products allow the replacement of any part in a simple and efficient manner. All spare parts are always available at our headquarters in the US and Europe and can be shipped express worldwide.

Our technical staff is always available for a free consultation and a free inspection in your boat in order to recommend the ideal Converter size and suggest the easiest, safest, and least expensive installation.

ANG SERVICES

- Consulting
- Maintenance & Support
- Project Management
- Technical Support

PRODUCT CATALOG DISCLAIMER

The information provided has been gathered and assembled with every effort made to validate accuracy and consistency of the content. However, A.N.G. USA INC does not make any warranty or guarantee as to this information.

If you have any questions about the specifications of any products, please verify with A.N.G. USA INC technicians and/or specialists before ordering.

Due to our continuous research and innovation, products design and all specifications are subject to change without notice.

Sales Terms & Conditions are available online on our website
www.angconverters.com



Customer Support
US +1 (954) 368-3214
EU +39 335 675 6169
eMail: info@angconverters.com

Declaration of Conformity:

All A.N.G. USA Inc. products are in conformity with UNI CEI EN ISO/IEC 17050-1:2005 and UNI CEI EN ISO/IEC 17050-2:2005 standards.

We, A.N.G. USA Inc. 3200 S. Andrews Ave, suite 207 Fort Lauderdale, FL 33316, hereby declare that the product below conforms to the relevant requirements of the appropriate EU directive.

All components are UL CERTIFIED.

Applicable UE Directives:

2006/95/CE (EU Directive on Electrical equipment designed for use within certain voltage limits). 2004/108/CE (EU Directive on Electromagnetic Compatibility).

Harmonized Standards:

CEI EN 55022:2006 Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement.

CEI EN 61000-4-2/A2:2001 Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test.

CEI EN 62040-1-1:2003 Uninterruptible power systems (UPS). Part 1-1: General and safety requirements.

CEI EN 62040-1-2:2003 Uninterruptible power systems (UPS). Part 1-2: General and safety requirements.

ELECTRICAL SURVEY • EQUIPMENT MONITORING SYSTEM • ELECTRICAL MAINTENANCE

ANG POWER SYSTEMS, starting January 2024, has founded a new company in partnership with Eternautica Srl, **G&G LUXURY YACHTS USA**.

G&G Luxury Yachts USA was established following years of successful collaboration with Eternautica Srl, a company renowned for over thirty years in the design, installation, and maintenance of electrical systems for yachts.

For the past decade it has served as a vital technical support partner for ANG POWER SYSTEMS, delivering product support, installations, and surveys throughout the Mediterranean region. With the launch of G&G Luxury Yachts USA, we aim to extend this high standard of service to the U.S. market bringing our expertise and commitment to excellence to our clients in the United States.

G&G LUXURY YACHTS USA, with its specialized technicians and team of engineers, offers the following services:

- ELECTRICAL TECHNICAL SUPPORT
- SUPPLY OF INTEGRATED SHIP MONITORING SYSTEMS
- ELECTRICAL MAINTENANCE
- SUPPLY OF ELECTRICAL SPARE PARTS FOR YACHTS BUILT IN EUROPE



G&G LUXURY YACHTS USA CORP

CONTACT ANG FOR MORE INFORMATION

+1 954 368-3214







HEADQUARTERS

3200 S. ANDREWS AVE, SUITE 207
FORT LAUDERDALE, FL 33316

WORKSHOP

LMC - Lauderdale Marine Center
2001 SW 20TH STREET BLDG 2005 UNIT #2B
FORT LAUDERDALE, FL 33315

CONTACT

+1 (954) 368-3214
INFO@ANGCONVERTERS.COM

ANG ITALY

+39 335 675 6169



MEMBER