



POLICY:

General Instructions for the Connection of Vessels to Shore-Based Power Supply

The electrical supply at South of Perth Yacht Club is 240 volts at 50Hz single phase (or 415 volts 3 phase in specific locations) supplied by socket outlets which will accommodate standard Australian plugs. Connection to the 240 volt single phase supply shall be via a 15amp 3 pin plug with an IP rating of a minimum IP24 (Fig.1) or IP56 (dust proof and weather proof to heavy seas force (Fig. 2)). IP56 plug tops can be identified by the screwed locking ring.

Your vessel's low voltage electrical system and the supply lead for connection to the shore based power supply must comply with AS3004 and the following requirements:

These requirements are in addition to the need for electrical systems on vessels to be certified as compliant with regulations and standards.

Fig. 1



Service pillar connection:
15amp heavy duty supply lead
and IP24/IP56 3 pin 15amp plug



Vessel connection:
15amp heavy duty supply lead
and IP24/IP56 3 pin 15amp socket

Fig. 2



Service pillar connection:
15amp heavy duty supply lead
and IP56 3 pin 15 amp plug



Vessel connection:
15amp heavy duty supply lead
and IP56 3 pin 15amp socket



Service pillar connection:
32amp heavy duty supply lead
and IP56 3 "round" pin 32amp plug

SoPYC Electrical Supply Cable Requirements

1. Supply leads shall be heavy duty flexible cords (complying with AS/NZS 3191 or AS/NZS 5000.1) with a minimum current rating of 15amp. The maximum length shall not exceed 25 metres. For Jetties 4 and 5 the policy will be applicable using 10amp power cords and 10amp plugs to the requisite standards. This will apply until such time as the power or jetties are upgraded. Thereafter the 15amp policy will apply.

2. Only ONE supply lead is to be connected to any socket outlet. The use of double adaptors or power boards is prohibited.
3. Leads should not be used coiled, as coiled leads generate heat and can damage the supply lead.
4. The entry of moisture and salt into the boat's appliance inlet may cause a hazard. Please examine carefully and clean before connecting to the Club electrical supply.
5. Precautions should be taken to prevent the supply lead from sagging or falling into the water and, particularly, to prevent either end of the supply lead falling into the water should it become disengaged.
6. It is dangerous for unskilled persons to attempt repairs or alterations. If any difficulty arises consult the boson or your licensed electrical contractor.

Before Leaving the Pen

1. Ensure that the Club electrical supply is switched off and the supply lead disconnected.
2. The supply lead should be disconnected from the Club socket outlet first, and then from the boat's appliance inlet. Any cover that may be provided to protect the appliance inlet from the weather should be securely replaced.
3. The supply lead should be coiled up and stored in a dry location where it will not be damaged.

Electrical Supply Lead

Supply leads used for connecting the vessel to the shore based electricity supply shall have a minimum current rating of 15amps and comply with the requirements of AS3004. In addition, the supply lead shall be inspected and tested by a licensed electrical contractor. If in the instance an electrical contractor is engaged to attend the vessel then the contractor must be South of Perth Yacht Club Accredited / Licensed. An SoPYC inspection tag shall be fitted to the supply lead within 1 metre of the supply lead plug (male end).

Frequency Inspection

Compliance for tags will be based on a calendar year i.e.: January 1st until December 31st, commencing January 2013. SoPYC dedicated Club tags will be available from the Club Office and will be allocated by the Club a colour code so as to identify the current year of compliance.

Failure to Comply

If the cord extension set is non-compliant with the above requirements the vessel owner will be requested to make these compliant by a specified date. If after that date the cord extension set is still non-compliant it will be disconnected from the shore supply. If a cord extension set is found to be dangerous the boson will immediately disconnect the extension cord set from the shore supply.

All electrical work greater than 50 volts AC or 115 volts DC carried out on recreational vessels is to comply with the:

- WA Electricity Act 1945
- Electricity Regulations 1947
- Electricity (Licensing) Regulations 1991
- Australian Standards relating to onboard electrical installations and connecting to shore-based power: AS3000 and AS3004.2.