



# icPower

*Control* your subsea power systems safely.

*Simplify* operations and save costs using the 10kW autonomous switching control.

*Ensure* safe recovery from possible dangerous situations using the fail-safe interlock.

*Supervise icPower* with a PC to check status or data.

*Get smarter* by connecting *icPower* to another instrument for enhanced power control.

*icPower* works by monitoring sensor and status inputs. It controls 10 kW in 4 isolated circuits.



## *Applications*

- Subsea controls for pumps and heaters
- Power dispatch for small wind or tidal turbines
- ROV power systems
- Subsea light controls

Use other members in the *icListen* family

**icListen**

**icCommand**

**icLink**



## icPower Details

The *icPower* unit intelligently switches four independent banks of high power relays. Sensor and status (switch type) inputs govern its operation. A fail-safe switch ensures safe operation of relay circuits.

- Power** Requires 12 – 48 Vdc, or 12-24Vac.  
Device uses 50mA when idle, and 500mA peak.
- Interface** Data link for control and status. Talks to *icCommand* or *icListen*.  
Uses RS-232 standard, and optionally uses RS-485.  
Reports status of relays, inputs and control history.
- Relays** Four banks of relays are intelligently switched.  
Each two-pole bank switches up to 40A at 240Vac.  
Resistive power switching is 2.5kW per bank.  
Total switching power is 10kW
- Standby Relay** A single normally open relay switches 10A at 250Vac  
All power circuits are fully isolated from the control.
- Diagnostics** LED's show the status of relays and switch inputs. A dataport is available for PC connection.
- Interlock** A safety interlock input is used to cut power immediately if a fault occurs. If the contact input opens, all relays turn off. After fault reset, the control runs a restart sequence.
- Environmental** Available in water enclosure rated to 200M or 3000M.  
Control to be used in a 1 atmosphere housing.  
Cool design, no heat producing components.
- Connectors** Connectors specified by user. Contact us for help specifying suitable subsea power connectors.