

ELTEK VALERE INDUSTRIAL

Marine Products and solutions



OUR BRAND PROMISE

EXCEPTIONAL PRODUCTS AND SERVICES, UNPARALLELED IN MEETING OUR CUSTOMERS' NEEDS

Eltek Valere Marine & Offshore

Eltek Valere has for decades provided high quality DC supplies for various marine and offshore applications. With a Norwegian heritage and hence strong ties to marine & offshore industry this was a natural evolution.

With recent acquisitions and product development we have now a very comprehensive product portfolio, covering most requirements for uninterruptible AC or DC supply.

In 2006 Eltek acquired Convertronic, now renamed to Eltek Valere Industrial. This company had most of its products and customers within the industrial sector and their products matches many marine and offshore requirements.

The acquisition of Valere in 2007 further strengthened both product portfolio as well as the global reach.

Eltek Valere is now operating in more than 60 countries and are repre-

sented in more than 100 countries. This in addition to our mobile service teams, enables us to give you fast and qualified assistance in most harbors around the world.

We put all efforts into making sure that our products and solutions ensure that our customers mission critical equipment is according to our slogan:

always on



PSR06W
600W wall mounted rectifier unit



Flatpack 2
2kW 24V or 48V rectifier unit

Wall mounted stand alone units

For those smaller loads not requiring a modular system and extensive distribution Eltek Valere has a range of stand alone rectifier/battery charger and inverter units. Some of these carry maritime approvals.

SMPS 700W (rectifier):

VDC	12	24	48
A	28	28	15.5



PSR06W (rectifier):

VDC	24	48	60	110
A	20	10	8.2	4.5

PSR06W (2,5 kVA inverter):

VDC	24	110	220
A (in)	97	20	10

Flatpack 2, Setting new standards

Since its launch in 2006 the Flatpack2 has gained a tremendous success in telecom and industrial applications. By the end of 2007 the number of sold units passed 400.000 units and the track record is really something to be proud of.

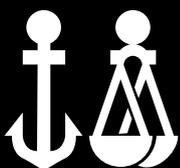
The Flatpack 2 is also an important building block in systems for Marine & Offshore. The modules and a variety of systems

carries a DNV certification, proving its appropriate for use under the tough conditions on board ships or fixed installations.

The Flatpack 2 is available in 2 versions, 24VDC and 48 VDC output. Both has an output of 2 kW and can operate in the full input range from 90 to 300 VAC.



8kW DnV certified system for integration into other equipment



**DNV
CERTIFIED**

DC Power System + UPS = Industrial UPS

In many locations on board ships or fixed installations, there is a need for uninterruptible AC and DC. This is most often solved by separate DC systems and AC UPS's. Typically these are from different suppliers, have separate battery banks and occupy a lot of space. The result is costly both from an initial investment, but even more so for service and maintenance.

Eltek Valere can offer complete solutions with

multiple DC and AC output voltages. A single cabinet can contain rectifiers, DC/DC converters, inverters, distributions and batteries. The whole system can be controlled by a single controller making operation simple

Besides being cost and space efficient it is also based modular. Within each module type increased safety or availability can be added by introducing redundancy. Replacement of faulty

modules can also be done in seconds, making sure that the load always has its required power.

We call such multiple output UPS's for Industrial UPS. Wherever you have a requirement for uninterruptible AC and DC in the same location, get in touch and we will make you a solution that saves space and simplifies your operation.



Typical industrial UPS with 110, 24VDC and 230VAC output

New DnV certified range of Marine systems

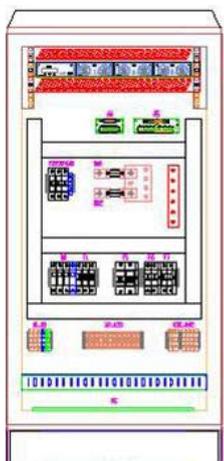
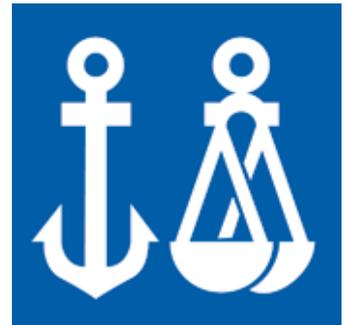
Certification by global accredited bodies is often a great advantage as overall certification of vessels and other installation is much simpler. Eltek Valere has always had a close relationship with DNV and our products for the maritime market has always carried their certification.

With many new building blocks in our offering we have also introduced new systems. To start off with we have certified 4 different systems with DNV.

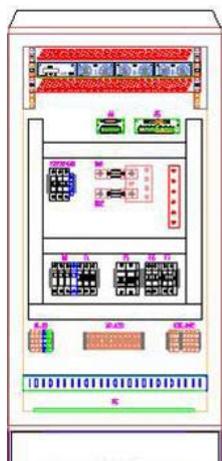
As these are modular systems any rating up to the maximum, can be achieved by simply installing the required

number of modules. Metering, termination and general finish is according to international maritime standards and expectations.

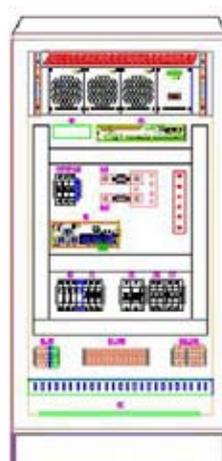
These systems, based on Eltek Valere standard modules, are assembled in our facilities in Singapore.



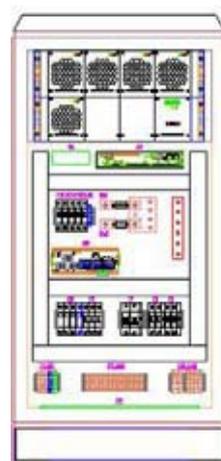
FLATPACK 2
24VDC/200A



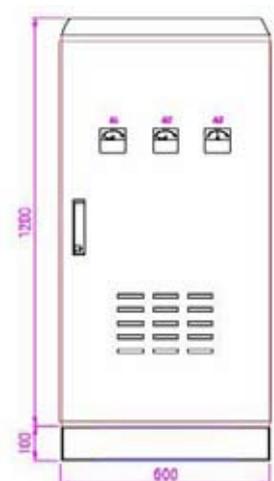
FLATPACK 2
48VDC/120A



PSR327
60VDC/120A



PSR327
120VDC/120A



Front view
with door

Industrial UPS Example (24, 48, 60VDC and 230VAC output)

Eltek Valere Industrial has had the pleasure of supplying a series of industrial UPS's to Wintershall in the Netherlands.

The last delivery was for platform P6-A in the North Sea.

Our contract covered everything from equipment supply through installation and commissioning.

The system has a rectifier capacity of 30 kW at 24V. Two racks of DC-DC converters provides 48VDC (34A) and 60 VDC 44A.

The system also includes inverters providing 12

kVA for those critical AC loads.

All the different output voltages has separate distribution units.

The complete system is backed up by a single 24V Nickel Cadmium battery bank.

Although a more complex system than normal, it shows the flexibility and advantages of a modular N+1 redundant system.

It also demonstrates our ability to make complex systems with various output voltages seamlessly intergrated in a single system and with a single controller.



Reference List

Year	Customer	Country	Product	Application
1980's	Statoil	Norway	SMPS 1500	Offshore, communication
1990's	Statoil	Norway	SMPS 1500/SMPS 5000	Offshore comms, PA, Control, Solas
1998-	Various	Global	SMPS 700Wall	Comms, start batteries, etc.
1998	Chatter	Germany	PSS30	Comms, Ferries
1998-	Various	Global	SMPS 700 Wall (DNV)	Comms, start batteries, etc.
1996-2007	Gdynia Shipyard	Poland	SMPS 1000	Container ship Control Room, Navigation
1985-2007	Kongsberg	Norway (export)	SMPS 250, 1000, UPS	Dynamic positioning
2003	Anda Olsen	Norway (Export)	SMPS 1000	Control
2005-2007	Gryfia Szczecin shipyard	Poland	SMPS 1000	Coast Guard Control Room and Navigation
2005-2009	Gryfia Szczecin shipyard	Poland	SMPS 1000	Container ship Control Room, Navigation
2006	Gaz De France	France	PSR312/INV211/PSC305	Offshore Control room
2007	GE Supply Asia	Singapore	PSR 327-110	FPSO Control room
2007	Neptune Marine	Singapore	Flatpack 2	FPSO Control Room
2007	Wintershall	Netherlands	PSR/PSC/UNV	Offshore, Control room
2008	Kongsberg	Norway (Export)	Flatpack 2	Control, Dynamic positioning