

Delivering power, **when you need it.**

# THYRISTOR>controlled

BATTERY CHARGING EQUIPMENT

CVF | 3CVF | NGTS | 3NGTS | ACVF™ | 3ACVF™ |

Robust, Reliable and Secure DC Power for the Utility and industrial sector.



Dependable, critical power when you need it.



Simple maintenance.

**25**  
YEARS

Asset lifespan.



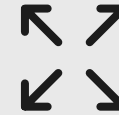
Single or Three phase input.



Utility and Grid installations.



Thyristor-controlled Rectifiers provide robust, dependable power.



Wide range of system sizes as standard.



Optitherm™ convection cooled.

Intregrated ACVF™ touchscreen multi-menu display.



Recycling Options.



Ready for standby power, emergency lighting or as a power supply.



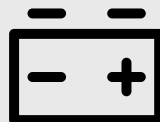
Cost-effective lifetime solutions.

Three phase input.

**6 or 12 pulse configuration**

Output ranges

**12>240VDC**



Various battery technologies capability.

**5**

**YEAR WARRANTY**

Standard throughout our product range.



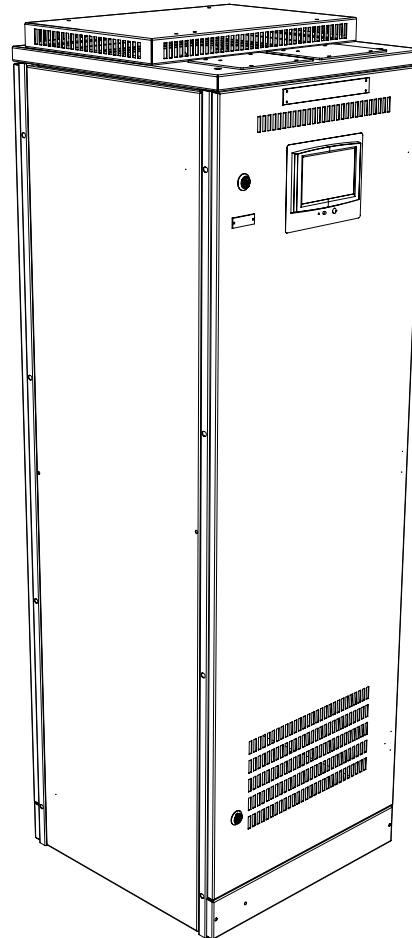
**Bespoke Variations**

Including chassis only, dual charger schemes, self-contained units with an integrated battery compartment and units including power distribution panels.

The images in this document are for illustration purposes only and may not accurately represent the product.

## OPTIONAL EXTRA FEATURES

- Microprocessor Control c/w Back lit LCD display and RS485 access port. (Optional external comms port)
- Battery String Monitoring
- Battery String High impedance
- Negative Temperature Compensation
- Variable Output Voltage and Current Control
- Improved smoothing - Power Supply Configuration
- Custom Livery
- CCITT smoothing for Telecom applications, to ETSI EN300 132-2
- Bacnet/RS232 and Modbus communication protocol
- Full range of alarms (extra options):
  - > AC Mains Fail
  - > AC Mains Fail/Phase Fail
  - > Charge Fail
  - > Low Volts (multiple levels)
  - > High Volts
  - > High Volts Shut-down (with manual reset)
  - > Earth Fault
  - > Fuse Fail
  - > High Impedance
  - > Battery Open Circuit



## Electrical Input/output

<b>Input Voltage</b>	110 – 230vac 1-Phase and 380 – 480vac 3-Phase 50/60Hz + -10% variation
<b>Output Voltage Range</b>	12vdc to 240vdc
<b>System Output Range</b>	0.5kva up to 120kva
<b>Voltage Regulation</b>	+/- 1% steady state up to +/- 0.5%
<b>Efficiency</b>	>80% depending on options fitted

## Control

<b>Digital Instrumentation</b>	Provided by ACVF™ control interface
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## Battery Compatibility

<b>Technology</b>	Planté Lead Acid, valve Regulated Lead Acid and Nickel cadmium Stationary battery types
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## Environmental

<b>Operating Temperature</b>	-20°C to +40°C
<b>Storage Temperature</b>	-40°C to +60°C
<b>Humidity</b>	>95% non-condensing
<b>De-rate</b>	1% per °C above 40°C
<b>Enclosure</b>	Sheet steel, epoxy powder coated > IP20

## Alarm/Functions

<b>Local</b>	Touchscreen indication/remote Volt-Free C/O Contacts
<b>Alarm/Functions</b>	Tri-colour LED with touchscreen technology, indicating fault(s)

## Standards

<b>Low Voltage Directive</b>	LVD 2014/35/EU
<b>Electrical Emissions</b>	BS EN61000-6-4: 2007+A1: 2011
<b>Electrical Immunity</b>	BS EN61000-6-2: 2005

Contact us for a free system survey and learn more about our products.

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