



CATHODIC
PROTECTION
CO LTD

Variac Transformer Rectifiers

APPLICATION

On-shore, off-shore and marine applications. A range of high quality Variac transformer rectifiers for all land and marine structures requiring an impressed current cathodic protection system.



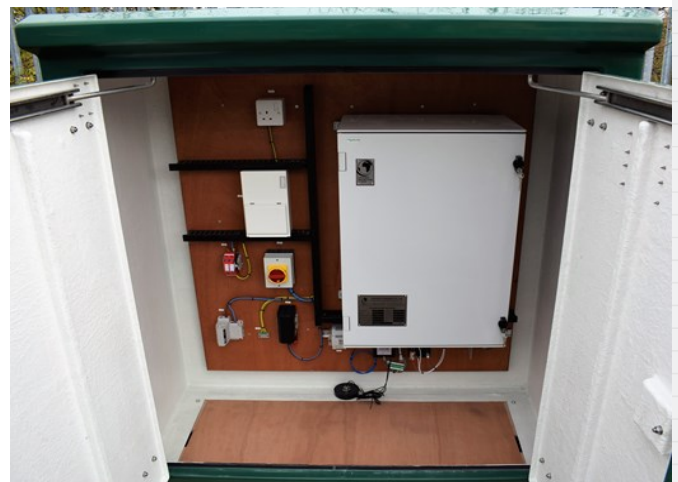
VARIAC TRANSFORMER RECTIFIER RANGE

Rating	Enclosure Dimensions H x W x D	Material
18V / 2A	430 x 330 x 200	GRP
48V / 2A	430 x 330 x 200	GRP
24V / 5A	430 x 330 x 200	GRP
48V / 5A	647 x 436 x 250	GRP
24V / 10A	647 x 436 x 250	GRP
48V / 10A	647 x 436 x 250	GRP
48V / 15A	600 x 600 x 300	Mild steel
48V / 20A	600 x 600 x 300	Mild steel
48V / 25A	600 x 600 x 300	Mild steel
48V / 30A	600 x 600 x 300	Mild steel

ELECTRICAL DESCRIPTION

An auto Variac transformer is used to vary the mains supply voltage between 0-100% to the step-down transformer which in turn reduces the mains supply voltage to that required for DC output voltage. The stepdown transformer has an earth screen to provide isolation. The reduced supply voltage is applied via semi-conductor fuses to the full wave bridge rectifier.

Control of the DC output is achieved by turning the Variac dial between 0-100%. This control allows smooth infinite adjustment between 1% and 100% of the rated output.



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Configuration Sheet

The CPCL range of Variac transformer rectifiers is available in a standard configuration, as denoted by the check boxes below. Optional extras, including GRP kiosk installation and Automa or Abriox remote monitoring equipment are available. Custom built items are available, if not covered by the options below.

DC OUTPUT			AC INPUT		
18V / 2A	18V / 2A	<input type="checkbox"/>	220-240V, single phase, 50Hz		<input checked="" type="checkbox"/>
48V / 2A	48V / 2A	<input type="checkbox"/>			
24V / 5A	24V / 5A	<input type="checkbox"/>	Monitoring		
48V / 5A	48V / 5A	<input type="checkbox"/>	AC input monitoring	Voltage	<input type="checkbox"/>
24V / 10A	24V / 10A	<input type="checkbox"/>		Current	<input type="checkbox"/>
48V / 10A	48V / 10A	<input type="checkbox"/>		Power	<input type="checkbox"/>
48V / 15A	48V / 15A	<input type="checkbox"/>	DC output	Analogue metering	<input checked="" type="checkbox"/>
48V / 20A	48V / 20A	<input type="checkbox"/>		Digital Panel meter	<input type="checkbox"/>
48V / 25A	48V / 25A	<input type="checkbox"/>	References	Number of references	
48V / 30A	48V / 30A	<input type="checkbox"/>		Analogue (& selector switch, if quantity >1)	<input type="checkbox"/>
				Analogue (& selector switch, if quantity >1)	<input type="checkbox"/>
Mechanical Check List				Digital panel meter (& selector switch, if quantity >1)	<input type="checkbox"/>
Grp kiosk		<input type="checkbox"/>		Digital panel meter (& selector switch, if quantity >1)	<input type="checkbox"/>
Gland plate (Mild steel enclosure only)		<input type="checkbox"/>	Remote monitoring	Automa monitoring	<input type="checkbox"/>
Manufacturer name plate 316L		<input checked="" type="checkbox"/>		Automa interruption	<input type="checkbox"/>
Rating plate 316L		<input checked="" type="checkbox"/>		Merlin Abriox monitoring	<input type="checkbox"/>
O & M manual		<input checked="" type="checkbox"/>		Merlin Abriox interruption	<input type="checkbox"/>



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CONFIGURATION SHEET (continued)

DC OUTPUT			AC INPUT		
Electrical Check List			Terminal Check List		
Surge arrester (Type 2)	AC	<input checked="" type="checkbox"/>	AC terminals	Stud type	<input type="checkbox"/>
	DC	<input checked="" type="checkbox"/>		Screw type	<input checked="" type="checkbox"/>
	Ref	<input type="checkbox"/>	DC terminals	Stud type	<input type="checkbox"/>
Isolator (interlocked)		<input checked="" type="checkbox"/>		Screw type	<input checked="" type="checkbox"/>
AC MCB		<input checked="" type="checkbox"/>			
Utility socket 3-pin BS1363 rated to 4A		<input type="checkbox"/>	Optional Kiosk Configuration		
AC ON LED		<input checked="" type="checkbox"/>	Rotary isolator		<input checked="" type="checkbox"/>
DC protection	HRC Fuse	<input checked="" type="checkbox"/>	RCD		<input checked="" type="checkbox"/>
	MCB	<input type="checkbox"/>	Utility socket 3-pin BS1363 rated to 4A		<input checked="" type="checkbox"/>
			Anti condensation heater		<input checked="" type="checkbox"/>
			Distribution board		<input checked="" type="checkbox"/>