



DCRL...



DCRG 8



DCRG 8F



EXP...

**DCRL / DCRG** Power Factor Controllers incorporate latest technological advanced monitoring to provide accurate measurement and control of network parameters in power factor correction applications, providing total protection of capacitors and systems.

- Configurable 1A or 5A current input
- Suitable for medium voltage systems (with VT's)
- High accuracy (TRMS) measurements with configurable alarms
- Wide voltage measurement range: 50-720VAC L-L, 50-415VAC L-N
- Expandable through clip-in expansion modules (*I/Os, Comm ports etc.*)
- Front mounted optic interface port for programming, data download, diagnostics

type	number of steps	expand to:	description	dimensions (mm)		
				(H)	(W)	(D)

**DCRL controllers 3, 5 and 8 step** single phase CT connection

**DCRL** series power factor controllers with advanced functionality in a dedicated ultra compact housing, combine modern front design with ease of mounting and expendability.

- Reactive power measurement per step installed
- 3, 5 or 8 steps (*expandable with expansion module*)
- Voltage and current THD with single harmonic analysis up to 15° order
- Backlit icon LCD display (*alarm codes with scrolling text*) 128 x 80 pixels

**3 and 5 step controllers**

1 expansion slot

<b>DCRL 3</b>	3 step	6 step	panel mount power factor controller	96	96	65
<b>DCRL 5</b>	5 step	8 step	panel mount power factor controller	96	96	65

**8 step controllers**

2 expansion slots

<b>DCRL 8</b>	8 step	14 step	panel mount power factor controller	144	144	44
---------------	--------	---------	-------------------------------------	-----	-----	----

**DCRG controllers 8 step** single and three-phase CT connection

**DCRG** series power factor controllers are designed to satisfy technical characteristics of modern electrical installation requirements in all industries and working conditions, to detect critical operating conditions and offer total protection of power factor systems.

- Recording of number of connections per step
- Capacitor over-current protection on all three phases
- Voltage and current THD with single harmonic analysis up to 31° order.
- 8 steps (*expandable by up to another 8 steps with plug-in expansion modules*)
- Backlit graphic LCD display (*permits reading in bar-graph and wave form format*)
- Configurable for fast dynamic (*thyristor*) switching or a combination of static and relay
- Quick CT programming function / Automatic identification of direction of CT current flow
- Calendar-clock (RTC) with backup reserve for event logging: Alarms, setup changes, etc.
- Connection to 1/3 ph lines, 3 ph + N and co-generation systems with 4 quadrant operation
- Three current inputs permit per phase analysis of all electrical parameters in the installation

**8 relay step controller**

4 expansion slots

<b>DCRG 8</b>	8 step	18 step	panel mount power factor controller	144	144	44
---------------	--------	---------	-------------------------------------	-----	-----	----

**8 thyristor static step controller** (*expandable up to 24 steps with expansion modules*)

<b>DCRG 8F</b>	8 step	24 step	static step power factor controller	144	144	44
----------------	--------	---------	-------------------------------------	-----	-----	----

**Expansion modules for controllers**

*EXP series expansion modules add extra functionality to following panel mount products:*

- DMG 600/700/800/900** - Digital milometers and power analysers
- DCRL and DCRG** - Automatic power factor controllers
- ATL 600/800/900** - Automatic transfer controllers
- RGK 400/600/750/800/900** - Generator controllers

type	inputs	outputs	description
------	--------	---------	-------------

**EXP expansion modules** (*plug into rear of controller to add more functionality*)

**Inputs/Outputs**

<b>EXP1006</b>	-	2 relay	to increase number of capacitor steps
<b>EXP1007</b>	-	3 relay	to increase number of capacitor steps
<b>EXP1000</b>	4 digital	-	opto-isolated digital inputs

**Note:** For more expansion modules options, see F-7