

# OCC-VAR

## Reactive Power Supply

Supply leading or lagging reactive power  
with ultrafast and precise control



[www.onecyclecontrol.com](http://www.onecyclecontrol.com)

### BENEFITS

- Hardware enabled control
  - Ultrafast, precise, and stable
- High efficiency
  - Energy saving
- Simple user interface
  - Low maintenance & low service
- Modular plug & play architecture
  - Scalable
- Long life design
  - Low logistics & installation cost
- Light weight minimum raw material usage
  - Environmentally friendly
- Small size
  - Space saving
- ETL listed
  - Safe and high quality
- Department of Energy sponsored and award winning
  - Highly competitive

### FEATURES

- ✓ One-Cycle Control Technology
- ✓ Precise step or continuous VAR control
- ✓ Inductive or capacitive VAR
- ✓ Uncompromised VAR @ low voltage
- ✓ Current harmonics < 3%
- ✓ Efficiency > 97%
- ✓ Leading response speed (100s of microsec)
- ✓ Leading light weight < 29 kg (65 lbs)
- ✓ 400Hz or variable frequency by custom order
- ✓ Single unit 35kVAR scalable to MVAR

### OVERVIEW

OCC-VAR leverages unique patented technology invented at Caltech & University of California and developed by the world leading power electronic experts under the sponsorship of U.S. Department of Energy. OCC-VAR is the first hardware-enabled 3-phase Reactive Power Supply with high reliability, extremely fast dynamics, and simple user interface, enabling reactive power compensation, voltage support, and/or power grid stabilization in real-time. OCC-VAR supplies reactive power wherever, whenever, and however on demand

### APPLICATIONS

- Supply VAR locally to free up reactive occupied capacity and minimize transmission losses
- Regulate the terminal voltage to maintain high power quality
- Stabilize the grid against intermittency to increase renewable penetration
- Support voltage, prevent blackout, and protect the power grid and customers



	<b>VAR3050A6480/XXXXIR</b>	<b>VAR3050A5380/XXXXIR</b>	<b>VAR3100A6208/XXXXIR</b>
	<b>VAR3075A6480/XXXXIR</b>	<b>VAR3075A5380/XXXXIR</b>	

Electrical Specification			
<b>AC Phase / Wires</b>	3 phase / 3 wires		
<b>AC Freq Range (Hz)</b>	57 - 63	47 - 53	57 - 63
<b>AC Voltage Range (V, rms) Line-to-Line</b>	400 - 552	320 - 440	175 - 240
<b>Max AC Current (A, rms)</b>	75 / 50		100
<b>Efficiency @ Full Power</b>	>98.3% / >97%		
<b>AC Current THD @ Full Power</b>	< 3%		
<b>Power Factor @ Full Power</b>	> 0.99		
Mechanical Specifications			
<b>Weight kg (lb)</b>	29 (65)		
<b>Size (L x W x H) cm (inch)</b>	58 x 45 x 13 (23 x 17.5 x 5.25)		
Environment Specifications			
<b>Operating Temp. (°C)</b>	0 to 40		
<b>Operating Relative Humidity w/o Condensation</b>	0 - 95%		
<b>Storage Temp. (°C)</b>	-10 to 55		
<b>Audible Noise (dBA) @ 1m (3ft)</b>	< 80		
Safety			
<b>UL 508C</b>	ETL Listed		

