

OCC-PLR

Peak Load Regulator

Regulate power demand using energy storage

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 OCC-GTI module
 - Safe and high quality
- California Energy Commission sponsored and award winning
 - Highly competitive

FEATURES

- One-Cycle Control Technology
- 4 Quadrant Technology
- Current harmonics < 3%
- Efficiency > 97%
- Stable zero load operation
- Leading response speed (100s of microsec)
- 400Hz or variable frequency by custom order
- Single unit 35 - 40kVA, scalable to MVA

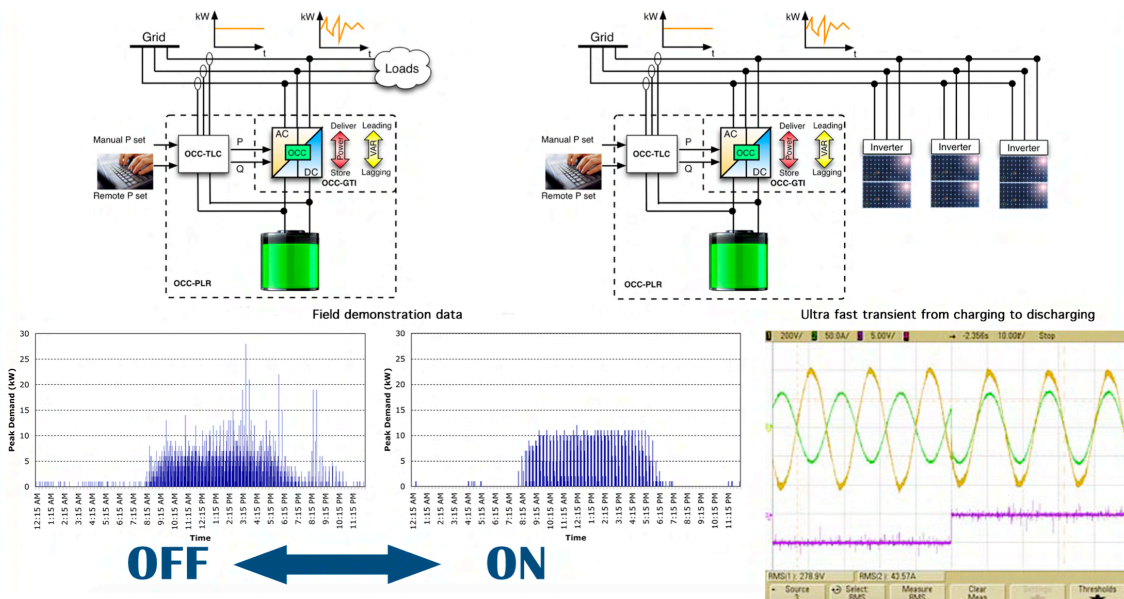
OVERVIEW

OCC-PLR leverages the first hardware-enabled 3-phase 4-quadrant OCC-GTI and OCC-TLC technology for better charging and discharging with ultrafast dynamic response, simple user interface, high reliability, and small form factor, enabling peak load reduction, demand response, voltage support, frequency regulation, PV firming, and/or wind power firming in real-time.

APPLICATIONS

- Shave peak load to avoid high peak penalties
- Reduce peak demand to free up transformer capacity
- Regulate load transients to maintain high power quality
- Stabilize the grid against intermittency to increase renewable penetration
- Support voltage, regulate frequency, prevent blackout, and protect the power grid and customers

	PLR3050A6480/ XXXXIR	PLR3050A5380/ XXXXIR	PLR3100A6208/ XXXXIR
Electrical Specification			
AC Phase / Wires	3 Phase / 3 Wires		
AC Freq Range (Hz)	57 - 63	47 - 53	57 - 63
AC Voltage Range (V, rms) Line-to-Line	400 - 552	320 - 440	175 - 240
Max AC Current (A, rms)	50		100
Energy kWh	30, 100, or more		9 or more
Efficiency @ Full Power	97%		
AC Current THD @ Full Power	3%		
Power Factor @ Full Power	0.99		
Mechanical Specifications			
Weight kg (lb)	Depends on battery		247 (545)
Size (L x W x H) cm (inch)	Depends on battery		84 x 59 x 140 (33 x 23 x 55)
Environment Specifications			
Operating Temp. (°C)	0 to 40		
Operating Relative Humidity w/o Condensation	0 - 95%		
Storage Temp. (°C)	-10 to 55		
Audible Noise (dBA) @ 1m (3ft)	80		
Safety			
UL 508C	ETL Listed		



OFF ↔ **ON**