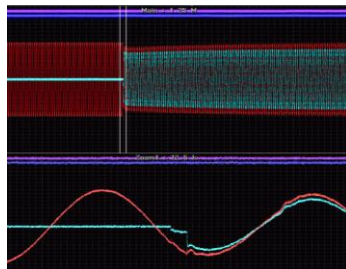


Stabiliti™ Series Microgrid Specifications Supplement

All specifications are 3 phase AC unless otherwise indicated

Ratings are only valid for battery-backed systems with battery voltages 500-1000 Vdc to allow full DC power draw

PCS Model	Stabiliti™ 30C & 30C3
Wiring	3 wire delta
Rated Power	29.99 kVA (29.99 kW, 27 kVAR)
Maximum Power	33 kVA (33 kW, 30 kVAR)
Nominal Output Voltage	480 V
Nominal Output Frequency	60 Hz
Nominal Current @ 480V/60Hz	37 A
AC Current Limit	44 A
Max Transient Load Step	29.99 kVA (29.99 kW, 27 kVAR)
3 Phase Load Imbalance	Supports 100% imbalance line-to-line
Transition Time, Grid Tied to Grid Forming (Sudden Loss of Grid)	<50 ms plus external switchgear delay*
Transition Time, Grid Tied to Grid Forming (Weak Grid Conditions)	Seamless Transfer
Paralleling Method	Masterless (autonomous load sharing with failover)
Load Sharing between Parallel Units	±3%, settles within 3 seconds after load steps*
Parallel Synchronized Blackstart	Supported via external distributed control signal*
Maximum Units in Parallel	Up to 10, requires Parallel Synchronized Blackstart*
Voltage Regulation	
Droop versus Reactive Power Variability under Constant Load	±5%, linear vs. Reactive Power Load
Transition to Grid Forming	<1% over full load range
Frequency Regulation	±5% of pre-transition voltage, based on load
Droop versus Real Power Variability under Constant Load	±1%, linear vs. Real Power load
Step Load Response, 0-100% step	<0.1% over full load range
Transient Voltage Artifacts	<10% discontinuity for <1ms
RMS Voltage Settling	<5% droop for <3 seconds



Sample oscilloscope capture of step load response
 AC voltage in red
 AC current in blue

* Refer to Ideal Power Application Note 504 "Rapid Backup Power Solution Guide" for implementation requirements