

**Comparison of Centauri Energy Server with Smart Inverters and PCS**

<b>Feature</b>	<b>Centauri Energy Server</b>	<b>Smart Inverter / Power Control System</b>
Pure Sine Wave Resolution	High resolution 1024 bit high speed switching	Standard resolution 16 bit
AC Overload (Torque Load) Setting	1000% for 2s	~150% - 250% for 15s
	999% to 200% for next 8s	
	200% for next 180s	
DC - AC System Efficiency	96.7% on reactive load & 99.1% on resistive load	~80%
Solar Charge Controller / Wind Charge Controller	Standard MPPT + proprietary algorithm increases battery capacity of select batteries by 40% and enables elimination of DOD limitation	Standard MPPT only
Battery Balancing	Continually monitors and balances batteries at the individual cell level for 2V/12V Lead Acid/AGM/Gel/Flooded/Li Ion/Supercap batteries - thereby increasing battery life	Not available
Multiple Input Generation Sources with Blended Output	PV solar, wind, diesel generator, grid, geothermal, battery, or any other AC or DC source can be concurrently connected as generation inputs and blended in a user determined percentage and delivered as regulated output	Not available
Multiple Input Source Switching	Available	Not available
Switching Time between Input Sources	0.00ms	
Switching Time for Bypass Mode	4ms	Not Available
Power Factor Correction on Load	Actively corrects power factor on load to 1	
Harmonics Filtering	Actively filters harmonics generated by reactive loads	Not Available
Monitoring	Built-in Standard. Uniquely user programmable data logging interval between 100ms to 10s, and data storage of all logging events on the Server's hard drive	Not available - added as accessory
Bypass Mode	Available	Not Available
Static Bypass	4ms switching time	
Auto Bypass	Overload or short circuit	
Manual Bypass	Available	
Auto Gen Start	Available	Not available