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Specification/Feature	Nano BAM	Micro BAM	Mini BAM	BAM	Mega BAM
Backup Service Panel Size	15 - 60 Amp	60-150 Amp	125-200 Amp	200-400 Amp	400+ Amp
Service Phase Type	Single	Single	Single or 3 Phase	Single or 3 Phase	Single or 3 Phase
Storage/Power:					
Output Range	3kW - 14 kW	9 kW - 36 kW	36 kW - 72 kW	48 kW - 96 kW	96 kW or Higher
Battery Storage (Min/Max)	10 kWh - 50kWh	25 kWh - 125kWh	60 kWh - 250 kWh	100 kWh - 250 kWh	200 kWh - 500 kWh
Outputs	Single: Nano Grid	Dual: Nano Grid + Micro Grid	Tri: Nano Grid + Micro Grid + System Control	Tri: Nano Grid+Micro Grid+ System Control	Quad: Nano Grid+ Dual Micro Grid + System Control
Hours backup@ 5kWh use	2 - 10 Hours	5 - 25 Hours	12 - 50 Hours	20 - 50 Hours	40 - 100 Hours
Size					
# System Cabinets	Half to 1	1	2	3	3+
Cabinet Size -	24" x 30" x 48"	24"W x 30"D x 90"H	48"W x 30"D x 90"H	72"W x 30"D x 90"H	72"W x 30"D x 90"H
# of Battery Cabinets	Half to 1	1 to 2	1 to 5	2 to 5	4 to 10
					
Energy Inputs:					
Grid Tied, Grid Interactive, Off Grid	X	X	X	X	X
Solar Configurable	X	X	X	X	X
Generator Configurable	X	X	X	X	X
Micro CHP Configurable	X	X	X	X	X
Wind Configurable	Optional	X	X	X	X
Fuel Cell Configurable	Optional	X	X	X	X
Hydroelectric Configurable	X	X	X	X	X
Other Features:					
Hot Swappable Inverters	X	X	X	X	X
Integrated MSP+Switchgear	NA	Optional	X	X	X
Integrated Nano-Grid	X	X	X	X	X
Thermal Management	NA	X	X	X	X
Blinkless Power	X	X	X	X	X
Flexible Battery Storage (BESS)	10 kWh - 50kWh	25 kWh - 125kWh	60 kWh - 250 kWh	100 kWh - 250 kWh	200 kWh - 500 kWh
Inverter Redundancy	X	X	X	X	X
Hardened Network Security	X	X	X	X	X
ESI's Control App	X	X	X	X	X
Remote Service Capabilities	Optional	X	X	X	X
Easily Expandable	X	X	X	X	X



BAM Micro-Grid Feature	BAM Micro-Grid Feature Description
Integrated Main Service Panel (MSP) and Switchgear	Unique to ESI's design is an integrated Main Service Panel (MSP) and switchgear delivering the complete electrical distribution infrastructure from source to subpanel.
Hot-Swappable Inverters	Traditional inverters are mostly hard-wired and are difficult to replace/service, which means your power is out until it's fixed. Our inverters simply plug into a backplane and are hot-swappable, enabling quick replacement without power interruption.
Nano-Grid Technology	Our IEG utilizes multiple built in Nano-Grids, which are sophisticated uninterruptable power supplies. This provides independent, clean, uninterruptible electrical power to critical infrastructure and delicate electronics, segregating mission-critical power from all other house loads.
Thermal Production and Storage (CHP)	Most systems do not consider thermal energy as part of the equation. However, over 60% of a home's energy consumption comes from heating or cooling living spaces and hot water. Our IEG manages, creates, and stores both thermal and electrical energy. This results in a profound increase in efficiency and reduction in energy cost.
Blinkless Power	In most systems, if the utility grid goes down, your home loses power for a period of time while the emergency system kicks in. With our IEG, power simply stays on. The system does this by having access to multiple sources of energy, including battery backup, that can be instantly deployed in the event of grid failure.
Remote Service Capability	In the event of a system issue, the critical components of our IEG can be remotely monitored – by our E-Team. Our team will either remotely resolve it or dispatch a repair team. Modular construction makes diagnosis and repair far simpler than traditional systems built on-site. We are able to run system diagnostics without disconnecting your power. If something goes wrong, we are the ones to call.
Fleixbile Battery Storage Sizing	Our IEG is not limited by energy capacity constraints, enabling us to design and expand your battery storage system to fit your current and future needs.
Easily Expandable	Unlike most other systems, our design philosophy makes it possible to easily upgrade capacity in the future. We can expand the production input, power output and storage capacity by simply adding modules to our system even after the system is installed. The IEG can easily grow to meet any unforeseen needs of your changing lifestyle.
Built In Redundancy	The critical components in our IEG have built-in redundancy. We deploy N+1 design methodology where critical components are duplicated to ensure your system maintains maximum reliability.
ESI's App	Our unique custom application allows you to monitor and control your home's complete energy profile from the palm of your hand. The Energy Security App looks at the entire energy envelope of your home, allowing you to see everything that is going on instantaneously and historically, from solar output to utility consumption. And if you wish to modify any setting (hot tub temp, lighting, etc.) it's all just a click away.

