

Shogun ESS



Shogun ESS Inverter Systems

Flexible Inverter System Solutions for
Your Energy Storage Needs

Our philosophy of relentless continuous improvement means the Shogun ESS inverter benefits from the experience and lessons learned from the tens of gigawatts of operating inverters, many of which are located in some of the harshest environmental conditions anywhere in the world. Combining this with a conservative and quality-first approach to inverter design, the Shogun ESS inverter is the most proven and reliable ESS inverter platform you can have for your energy storage systems.

The Shogun ESS inverter utilizes the wildly successful modular architecture of the Ninja series of inverters where multiple independent inverters are combined to form a larger power conversion unit that shares a common medium voltage transformer. Each inverter - at 1.3 MVA - is sized to ideally match with two- to four-hour battery systems from leading manufacturers. A complete Shogun

Inverter Station conveniently and flexibly comes with one, two, or three inverters housed inside a 20' shipping container, a matching medium voltage transformer, and an available auxiliary power system designed to match specifically to your battery systems' requirements. As one would expect from a leading supplier, the Shogun ESS Inverter complies with the latest standards and grid code, namely UL 1741SB, IEEE 2800*, ERCOT's NOGRR 245*, and CAISO LGIA Appendix H - Fault Reporting Requirements.

With TMEiC's extensive industry know-how, our technical team will work with you to tailor the Shogun ESS Inverter Station to your specific needs, provide validated grid models, and support you through the interconnection application process. We are dedicated to delivering innovative and tailored solutions for your ESS inverter needs, making us your partner of choice in powering the future.

Shogun ESS

Inverter Features	Single Inverter Module
Rated Output Power @40°C	1300 kW
Rated Voltage	660 Vac
Rated Current	1138 Arms
Battery Voltage Range	1000 to 1500 VDC
Maximum Input Current	1327 Adc
Efficiency, Maximum / Rated	98.5% / 98.2%
SC Withstand Current Capability	85 kA AC side, 100 kA (20ms) DC side
Power Factor Capability	± 0.8
Ancillary Service Capability	Synthetic inertia, fast frequency response, voltage regulation
Operating Temperature	-25 to 50°C
Protection: AC side / DC side	Breaker / Fuses
Inverter Protection Rating	Inverter: IP 21; Container: IP 55
Dimensions	2000 x 1540 x 2040 mm (H x W x D)
Weight	<2,000 kgs
Compliance	UL1741SB, IEEE1547-2018, IEEE2800*, ERCOT's, NOGRR245*, CAISO LGIA Appendix H Data Recording

Inverter Station Features	Shogun-3	Shogun-2	Shogun-1
Shogun Inverter Qty	3	2	1
Rated Output Power @40°C	3900 kW	2600 kW	1300 kW
Rated Combined DC Current Input	3981 A	2654 A	1327 A
Auxiliary Power Package	25-200 kVA		
MV Transformer Output Voltage Range	7 to 35 kV; 45 kV**		
Environmental Rating	IP55		
Acoustic Noise (@ 1 meter, dB)	<80	<78	<76
Dimensions	2591 x 6058 x 2438 mm (H x W x D)		
Max Gross Weight	<12,000 kgs	<10,000 kgs	<8,000 kgs

*Compliance evaluated at POI; **up to 45kV class possible, please consult TMEIC



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