

Solition Mega Power Conversion System

Technical data sheet

Flexible Configuration:

- Modular design with up to 8 modules
- Direct interconnection with 480/600/690Vac
- Power range: 125kW-1.72MW

Extensive Use:

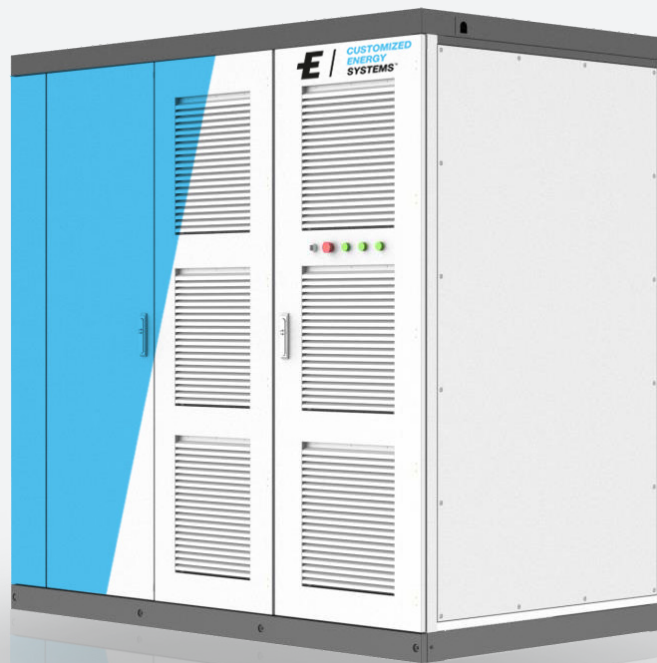
- Energy trade, FCR and other strategies through Storage Control System
- Outdoor NEMA3R Cabinet

High Efficiency & Stability:

- Maximum efficiency can reach 99% @ DC 1000V
- Multi-string technology for better battery safety and performance

Safety & Compatibility:

- Fast response time less than 10ms
- Grid-support function built-in
- Globally grid certified & listed



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Specification

Type	SoMe-1720-PCS
AC parameters	
Nominal AC power	1720kVA
AC connection	Three-phase three-wire
Overload Capability	1897kVA
AC voltage	690V or 800V at full power, 400 or 440Vac with reduced power (-15%~10%)
AC frequency	50/60 (-5~5) Hz
THDi	≤3%
AC PF	-1 ~ +1
DC parameters	
Max DC power	1897kW
DC voltage range	1000~1500V
Full load voltage range	1070~1500V
Number of DC branches	1/8
Maximum DC current every branch	1897A/237A
Voltage regulation accuracy	±1%
Current regulation accuracy	±1%
System parameters	
Efficiency curve	<p>The graph shows efficiency curves for PWS1-1725KTL-H. The y-axis is Efficiency % (96 to 99) and the x-axis is Power (Rated Power) (0.1 to 1). Curves are shown for 2300V Charge, 1200V Charge, 600V Charge, 2300V Discharge, 1200V Discharge, and 600V Discharge. Efficiency peaks at approximately 99% for discharge and 98.5% for charge at 0.5 power.</p>
Peak efficiency	99%
Size (W*H*D)	2200 x 2160 x 1300 mm
Weight	Cabinet 1200kg + n Modules of 100kg each (n=1,2,...,8)
Noise	<75dB
Enclosure	IP55
Operating temperature	-20°C to 60°C (derating above 45°C)
Cooling	Air cooling
Humidity	0~95% (non-condensing)
Max elevation	3000m / 10000feet (> 3000m / 10000 feet derating)
Connection parameters	
Communication	RS 485, Ethernet, CAN
Protocol	Modbus TCP/RTU, IEC104, IEC61850
Storage Control System	Exide-CES

norwatt@norwatt.es

www.norwatt.es

Solution containerized energy storage systems / liquid cooling

Technical data sheet

Applications



Commercial and industrial applications



Agriculture



E-mobility



Renewable energy



Biogas plant



Utilities

Technical characteristics and data

Specification	
System type	SoMe-1720/3440
Battery type	LFP Cell
Configuration	10P384S
System energy (BOL)	3440.64kWh
Battery voltage range	1075.2~1382.4V
Charge/Discharge current	Rated $\leq 0.5C$ / Max. $\leq 0.5C$
BMS communication interfaces	CAN
Thermal management	Liquid cooling
Dimension (W x D x H)	6058 x 2438 x 2896mm
Weight	~35t
Operation temperature	Charge: 0~50°C / Discharge: -20~50°C
Relative humidity	5% ~ 95% (non-condensing)
Degree of protection	IP54
Color	RAL off-white



Liquid cooling