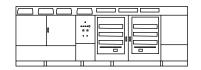


Easy maintenance.

Integrated MV solution in the same enclosure. Advanced grid support.

Compatible with all battery technologies.





COMMON FEATURE	S				
	Operating Grid Frequency (Hz)	60Hz			
AC	Current Harmonic Distortion (THDi)	< 3% per IEEE519			
	Power Factor (CosPhi)[1]	0.5 leading 0.5 lagging	0.5 leading 0.5 lagging		
	Reactive Power Compensation	Four quadrant operation			
	Maximum DC Voltage	1500V	1500V		
DC	DC Voltage Ripple	< 3%	< 3%		
	Max. DC Continuous Current (A)	4590			
	Max. DC Short Circuit Current (kA)	500 kA with a time constant of 1 ms			
	Battery Technology	All type of batteries (BMS required)			
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.5			
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.3			
	Weight (lbs)	30865			
	Weight (kg)	14000	14000		
	Type of Ventilation	Forced air cooling			
ENVIRONMENT	Degree of Protection	NEMA 3R			
	Operating Temperature Range [2]	From -25°C to +60°C, >40°C power derating			
	Operating Relative Humidity Range	From 4% to 100% non-condensing			
	Storage Temperature Range	From -40°C to +60°C	From -40°C to +60°C		
	Max. Altitude (above sea level) [3]	2000m			
CONTROL INTERFACE	Communication Protocol	Modbus TCP			
	Power Plant Controller	Optional. Third party SCADA systems supported.			
	Keyed ON/OFF Switch	Standard			
PROTECTIONS	Ground Fault Protection	Insulation monitoring device			
	Humidity Control	Active heating	Active heating		
	General AC Protection & Disconn.	38 kV MV switchgear (20 or 25 kA)			
	General DC Protection & Disconn. [4]	High-speed fuses, Motorized DC disconnect switches			
	Overvoltage Protection	Type II for AC and Type I+II for DC			
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.107.1-16			
	Installation	NEC 2023			
	Utility Interconnect [5]	UL 1741 SA & SB / RULE 21 / RULE 14H / IEEE 1547.1:2020			
EFERENCES		FP4200M FP4201M	FP4204M		
AC	AC Output Power (kVA/kW) @40°C [6]	4200			
	AC Output Power (kVA/kW) @50°C [6]	3900			
	Operating Grid Voltage (kV)	34.5 kV ±10% 13.8 kV ±10%	12.47 kV ±10%		
С	DC Voltage Range [7]	934V - 1500V			
EFFICIENCY	Efficiency (Max) (η)	98.00% including MV transformer			
	CEC (η)	97.53% including MV transformer			
EFERENCES		FP4105M			
AC	AC Output Power (kVA/kW) @40°C [6]	4105	4105		
	AC Output Power (kVA/kW) @50°C [6]	3810	3810		
	Operating Grid Voltage (kV)	34.5kV ±10%			
C	DC Voltage Range [7]	913V - 1500V			
EFFICIENCY	Efficiency (Max) (η)	97.93% including MV transformer			
	CEC (η)		97.50% including MV transformer		
EFERENCES	FP4010M				
AC	AC Output Power (kVA/kW) @40°C [6]	4010			
	AC Output Power (kVA/kW) @50°C [6]	3720			
	Operating Grid Voltage (kV)	34.5kV ±10%			
	DC Voltage Range [7]	891V - 1500V			
С	DC voitage Range		97.91% including MV transformer		
OC FFICIENCY	Efficiency (Max) (n)		rmer		

NOTES

- [1] Consult P-Q charts available: $Q(kVAr)=\sqrt{(S(kVA)^2-P(kW)^2)}$. [2] Optional available for temperatures down to -35°C.
- [3] Consult Power Electronics for altitudes above 1000m.
- [4] Battery short circuit disconnection must be done on the battery side.
- [5] Consult Power Electronics for other applicable standards / grid codes.
- [6] Values at 1.00-Vac nom and CosPhi=1. Consult Power Electronics for derating curves and overload capability in grid forming mode.

[7] Consult Power Electronics for derating curves. In the event of overvoltage in the grid,

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the minimum DC voltage will vary proportionally with the AC voltage.

