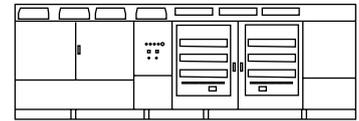

Easy maintenance.
Integrated MV solution in the same enclosure.
Advanced grid support.
Compatible with all battery technologies.





REFERENCES		FP4200MH	FP4202MH
AC	AC Output Power (kVA/kW) @40°C ^[1]	4200	
	AC Output Power (kVA/kW) @50°C ^[1]	3900	
	Operating Grid Voltage (kV)	34.5kV ±10%	33 kV ±10%
	Operating Grid Frequency (Hz)	60Hz	50Hz
DC	DC Voltage Range ^[3]	934V - 1500V	
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.80% including MV transformer	
	Euroeta (η) (preliminary)	97.51% including MV transformer	
REFERENCES		FP4105MH	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4105	
	AC Output Power (kVA/kW) @50°C ^[1]	3810	
	Operating Grid Voltage (kV)	34.5kV ±10%	
	Operating Grid Frequency (Hz)	60Hz	
DC	DC Voltage Range ^[3]	913V - 1500V	
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.76% including MV transformer	
	Euroeta (η) (preliminary)	97.50% including MV transformer	
REFERENCES		FP4010MH	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4010	
	AC Output Power (kVA/kW) @50°C ^[1]	3720	
	Operating Grid Voltage (kV)	34.5kV ±10%	
	Operating Grid Frequency (Hz)	60Hz	
DC	DC Voltage Range ^[3]	891V - 1500V	
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.75% including MV transformer	
	Euroeta (η) (preliminary)	97.48% including MV transformer	
COMMON FEATURES			
AC	Current Harmonic Distortion (THDi)	< 3% per IEEE519	
	Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging	
	Reactive Power Compensation	Four quadrant operation	
DC	Maximum DC Voltage	1500V	
	DC Voltage Ripple	< 3%	
	Max. DC Continuous Current (A)	4590	
	Max. DC Short Circuit Current (kA)	250 kA with a time constant of 3ms	
	Battery Technology	All type of batteries (BMS required)	
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2	
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2	
	Weight (lbs)	30865	
	Weight (kg)	14000	
	Type of Ventilation	Forced air cooling	
ENVIRONMENT	Degree of Protection	IP55	
	Operating Temperature Range ^[4]	From -25°C to +60°C, >50°C power derating	
	Operating Relative Humidity Range	From 4% to 100% non-condensing	
	Storage Temperature Range	From -15°C to +40°C	
	Max. Altitude (above sea level) ^[5]	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	
	General AC Protection & Disconn.	MV switchgear (2L+V)	
	General DC Protection & Disconn.	DC switch-disconnectors ^[6]	
CERTIFICATIONS & STANDARDS	Overvoltage Protection	Type II for AC and Type I+II for DC	
	Safety	IEC 62477-2	

NOTES

[1] Values at 1.00-Vac nom and cosφ=1. Consult Power Electronics for charging mode and derating curves.

[2] Consult P-Q charts available: $Q(kVar) = \sqrt{(S(kVA))^2 - P(kW)^2}$.

[3] Consult Power Electronics for derating curves.

[4] Optional available for temperatures down to -35°C.

[5] Consult Power Electronics for altitudes above 1000m.

[6] Battery short circuit disconnection must be done on the battery side.