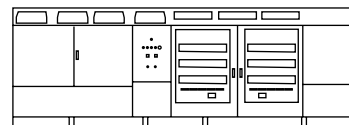

Easy maintenance.
Integrated MV solution in the same enclosure.
Advanced grid support.
Compatible with all battery technologies.





REFERENCES		FP5020MU
AC	AC Output Power (kVA/kW) @30 °C ^[1]	5240
	AC Output Power (kVA/kW) @35 °C ^[1]	5020
	AC Output Power (kVA/kW) @40 °C ^[1]	4800
	AC Output Power (kVA/kW) @50 °C ^[1]	4360
	Operating Grid Voltage (kV)	34.5 kV ±10%
	Operating Grid Frequency (Hz)	60 Hz
	Current Harmonic Distortion (THDi)	<3% per IEEE 519
	Power Factor (CosPhi) ^[2]	0.5 leading ... 0.5 lagging
	Overload Capability	166% - 100 ms / 150% - 5 s / 120% - 8 s / 110% - 15 s
DC	DC Voltage Range Full Power ^[3]	976 V - 1500 V
	Maximum DC Voltage	1500 V
	DC Voltage Ripple	<3%
	Max. DC Continuous Current (A)	5478
	Max. DC Short Circuit Current (kA)	500 kA with a time constant of 1 ms
	Battery Technology	All type of batteries (BMS required)
EFFICIENCY & AUX. SUPPLY	Efficiency (Max) (η)	98.00% including MV transformer
	CEC (η)	97.53% including MV transformer
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
	Type of Ventilation	Forced air cooling
ENVIRONMENT	Degree of Protection	NEMA 3R
	Operating Temperature Range ^[4]	From -25 °C to +60 °C, >30 °C power derating
	Operating Relative Humidity Range	From 4% to 100% non-condensing
	Storage Temperature Range	From -40 °C to +60 °C
	Max. Altitude (above sea level) ^[5]	2000 m
CONTROL INTERFACE	Communication Protocol	Modbus TCP
	Power Plant Controller	Optional
	Keyed ON/OFF Switch	Standard
PROTECTIONS	Ground Fault Protection	Insulation monitoring device
	Humidity Control	Active heating
	General AC Protection & Disconnection	38 kV MV switchgear (V)
	General DC Protection & Disconnection	High-speed fuses, Motorized DC disconnect switches ^[6]
	Overvoltage Protection	Type 2 for AC and Type 1+2 for DC
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.107.1-16
	Installation	NEC 2023
	Utility Interconnect ^[7]	UL 1741 SA & SB / IEEE 1547.1

NOTES

- [1] Values at 1.00-Vac nom and CosPhi=1.
Consult Power Electronics for derating curves.
[2] Consult P-Q charts available: $Q(kVar) = \sqrt{(S(kVA))^2 - P(kW)^2}$.
[3] Consult Power Electronics for derating curves. In the event of overvoltage in the grid, the minimum DC voltage will vary proportionally with the AC voltage.
[4] Optional available for temperatures below -25 °C.
[5] Consult Power Electronics for altitudes above 1000 m.
[6] Battery short circuit disconnection must be done on the battery side.
[7] Consult Power Electronics for other applicable standards / grid codes.