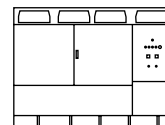

Modularity.
Easy maintenance.
Advanced grid support.
Compatible with all battery technologies.





Preliminary

690 V

FRAME		2	3	4
REFERENCES		FP2510K	FP3765K	FP5020K
AC	AC Output Power (kVA/kW) @35 °C ^[1]	2510	3765	5020
	AC Output Power (kVA/kW) @40 °C ^[1]	2400	3600	4800
	AC Output Power (kVA/kW) @50 °C ^[1]	2180	3270	4360
	Max. AC Output Current (A) @35 °C	2100	3150	4200
	Operating Grid Voltage (kV)	690 V ±10%		
	Operating Grid Frequency (Hz)	50 / 60 Hz		
	Current Harmonic Distortion (THDi)	<3% per IEEE 519		
	Power Factor (CosPhi) ^[2]	0.5 leading... 0.5 lagging		
	Reactive Power Compensation	Four quadrant operation		
	DC Voltage Range Full Power ^[3]	976 V – 1500 V		
DC	Maximum DC Voltage	1500 V		
	DC Voltage Ripple	<3%		
	Max. DC Continuous Current (A)	2624	3936	5248
	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)	98.84%	98.87%	98.94%
	CEC (η)	98.34%	98.49%	98.51%
CABINET	Dimensions [WxDxH] (ft)	9.8 x 6.5 x 7.5		
	Dimensions [WxDxH] (m)	3.0 x 2.0 x 2.3		
	Weight (lbs)	8600	9700	10365
	Weight (kg)	3900	4400	4700
	Type of Ventilation	Forced air cooling		
ENVIRONMENT	Degree of Protection	NEMA 3R / IP55		
	Operating Temperature Range ^[4]	From -25 °C to +60 °C, >35 °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 / >2000 m power derating (max. 4000 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	Circuit breaker		
	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.1071-16 / IEC 62109-1 / IEC 62109-2 / IEC 62477-1		
	Installation	NEC 2023		
	Utility Interconnect ^[7]	UL 1741 SA & SB / IEEE 1547.1 / IEC 62116 / / G99 / VDE 4110-4120-4130 / CEI 0-16 / NTS 2.1 / EN 50549		

NOTES

- [1] Values at 1.00-Vac nom and CosPhi=1.
Consult Power Electronics for derating curves and overload capability in grid forming mode.
- [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 down to -35 °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.