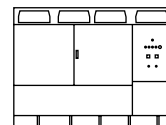

Modularity.
Easy maintenance.
Advanced grid support.
Compatible with all battery technologies.





690 V

REFERENCES		FP5020K
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
	Max. AC Output Current (A) @30 °C	4385
	Operating Grid Voltage (V)	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	Overload Capability	166% - 100 ms / 150% - 5 s / 120% - 8 s / 110% - 15 s
	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)	98.94%
	CEC (η)	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)	10365
	Weight (kg)	4700
	Type of Ventilation	Forced air cooling
ENVIRONMENT	Degree of Protection	NEMA 3R / IP55
	Operating Temperature Range ^[4]	From -40 °C to +60 °C, >30 °C power derating
	Operating Relative Humidity Range	From 4% to 100%
	Storage Temperature Range	From -40 °C to +60 °C
	Max. Altitude (above sea level)	2000 m / >2000 m power derating (max. 4000 m)
CONTROL	Communication Protocol	Modbus TCP
	Grid Forming (VISMA) / Black Start Capable	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 ^[5]
	Overvoltage Protection	Type 2 for AC and Type 1+2 for DC
STANDARDS	Safety	UL 1741 / CSA 22.2 No.1071-16 / IEC 62109-1 / IEC 62109-2 / IEC 62477-1
	Installation	NEC 2023
	Utility Interconnect ^[6]	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.

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

[6] Consult Power Electronics for other applicable standards / grid codes.