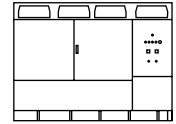


Multi PCSK

Modularity.
Easy maintenance.
Up to 4 independent DC inputs.
Advanced grid support.
Compatible with all battery technologies.





REFERENCES	FP5020K2	FP5020K4
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
	Overload Capability	166% - 100 ms / 150% - 5 s / 120% - 8 s / 110% - 15 s
	DC	DC Voltage Range Full Power [3]
Maximum DC Voltage		1500 V
DC Voltage Ripple		<3%
Max. DC Continuous Current (A)		2740
Max. DC Short Circuit Current per Input (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 -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 / >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.107.1-16 / 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 below to -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.