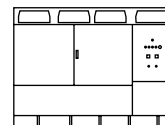




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REFERENCES	FS4997K	FS4998K	FS4999K	
AC	AC Output Power (kVA/kW) @30 °C ^[1]	4999		
	AC Output Power (kVA/kW) @35 °C ^[1]	4999		
	AC Output Power (kVA/kW) @40 °C ^[1]	4860		
	AC Output Power (kVA/kW) @50 °C ^[1]	4430		
	Max. AC Output Current (A) @30 °C	4183		
	Operating Grid Voltage (VAC)	660 V ±10%	690 V ±10%	
DC	DC Voltage Range ^[3]	934 V - 1500 V	976 V – 1500 V	
	Max. DC Continuous Current (A) ^[4]	5498	5495	5498
	Max. DC Short Circuit Current (A) ^[4]	8000		
COMMON FEATURES				
AC	Operating Grid Frequency (Hz)	60 Hz	50 / 60 Hz	
	Current Harmonic Distortion (THDi)	< 3% per IEEE 519		
	Power Factor (CosPhi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
DC	Maximum DC Voltage	1500 V		
	Number of Inputs	Up to 40		
	Number of Freemaq DC/DC ^[4]	Up to 4		
EFFICIENCY	Efficiency (Max) (η)	98.95%		
	Euroeta (η)	98.53%		
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 ^[5]	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	GFDI and insulation monitoring device		
	Humidity Control	Active heating		
	General AC Protection & Disconn.	Circuit breaker		
	General DC Protection & Disconn.	Fuses, Motorized DC disconnect switches		
	Overvoltage Protection	Type II protection for AC and DC		
STANDARDS	Safety	UL 1741 / CSA 22.2 No.1071-16 / IEC 62109-1 / IEC 62109-2		
	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 / IEEE 2800		

NOTES

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

The maximum AC output power must be limited to meet the P-Q capability requirement at the inverter level of some grid codes.

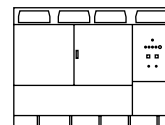
[2] Consult P-Q charts available: $Q(kVAR) = \sqrt{(S(kVA))^2 - P(kW)^2}$.

[3] Consult Power Electronics for derating curves above 1300 Vdc. In the event of overvoltage in the grid, the minimum DC voltage will vary proportionally with the AC voltage.

[4] Consult Power Electronics for Freemaq DC/DC connection configurations.

[5] Optional available for temperatures below -25 °C.

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



REFERENCES		FS5000K	FS5075K
AC	AC Output Power (kVA/kW) @30 °C ^[1]	5030	5260
	AC Output Power (kVA/kW) @35 °C ^[1]	5000	5075
	AC Output Power (kVA/kW) @40 °C ^[1]	4780	4860
	AC Output Power (kVA/kW) @50 °C ^[1]	4345	4430
	Max. AC Output Current (A) @30 °C	4400	
	Operating Grid Voltage (VAC)	660 V ±10%	690 V ±10%
DC	DC Voltage Range ^[3]	934 V – 1500 V	976 V – 1500 V
	Max. DC Continuous Current (A) ^[4]	5495	5498
	Max. DC Short Circuit Current (A) ^[4]	8000	
COMMON FEATURES			
AC	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 adjustable / Reactive power injection at night	
DC	Maximum DC Voltage	1500 V	
	Number of Inputs	Up to 40	
	Number of Freemaq DC/DC ^[4]	Up to 4	
EFFICIENCY	Efficiency (Max) (η)	98.95%	
	Euroeta (η)	98.53%	
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 ^[5]	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	GFDI and insulation monitoring device	
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