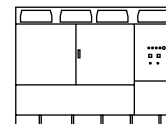




Easy maintenance.
Multilevel topology.
Advanced grid support.
Full power voltage range.
Bus Plus. Combine Solar and Storage.



**COMMON FEATURES**

FRAME		2	3	4
AC	Max. AC Output Current (A) @40°C	1837	2756	3674
	Operating Grid Frequency (Hz)	50/60Hz		
	Current Harmonic Distortion (THDi)	< 3% per IEEE519		
	Power Factor (CosPhi) ^[1]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
DC	Maximum DC Voltage	1500V		
	Number of Inputs	Up to 20	Up to 30	Up to 40
	Max. DC Continuous Current (A) ^[2]	2295	3443	4590
	Max. DC Short Circuit Current (A) ^[2]	3470	5205	6940
	Number of Freemaq DC/DC ^[2]	Up to 4		
CABINET	Dimensions [WxDxH] (ft)	9.8 x 6.5 x 7.2		
	Dimensions [WxDxH] (m)	3.0 x 2.0 x 2.2		
	Weight (lbs)	11465	11795	12125
	Weight (kg)	5200	5350	5500
	Type of Ventilation	Forced air cooling		
ENVIROMENT	Degree of Protection	NEMA 3R / IP55		
	Operating Temperature Range ^[3]	From -25°C to +60°C, >40°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)	2000m / >2000m power derating (Max. 4000m)		
CONTROL INTERFACE	Communication Protocol	Modbus TCP		
	Power Plant Controller	Optional		
	Keyed ON/OFF Switch	Standard		
PROTECTIONS	Ground Fault Protection	GFDI and isolation monitoring device		
	Humidity Control	Active heating		
	General AC Protection & Disconn.	Circuit breaker		
	General DC Protection & Disconn.	Fuses, Motorized DC disconnect switches		
	Overvoltage Protection	Type 2 protection for AC and DC		
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.1071-16 / IEC 62109-1 / IEC 62109-2		
	Installation	NEC 2023 / IEC		
	Utility Interconnect	UL 1741 SA & SB / RULE 21 / RULE 14H / IEEE 1547.1 2020 / IEC 62116:2014		

		690V			660V			645V		
FRAME		2	3	4	2	3	4	2	3	4
REFERENCES		FS2195K	FS3290K	FS4390K	FS2101K	FS3151K	FS4200K	FS2055K	FS3080K	FS4105K
AC	AC Output Power (kVA/kW) @40°C ^[4]	2195	3290	4390	2100	3150	4200	2055	3080	4105
	AC Output Power (kVA/kW) @50°C ^[4]	2035	3055	4075	1950	2925	3900	1905	2855	3810
	Operating Grid Voltage (VAC)	690V ±10%			660V ±10%			645V ±10%		
DC	DC Voltage Range ^[5]	976V - 1500V			934V - 1500V			913V - 1500V		
EFFICIENCY	Efficiency (Max) (η) ^[6]	98.94%			98.96%			98.81%		
	Euroeta (η) ^[6]	98.51%			98.53%			98.41%		
		630 V			615 V			600 V		
FRAME		2	3	4	2	3	4	2	3	4
REFERENCES		FS2005K	FS3005K	FS4010K	FS1955K	FS2935K	FS3915K	FS1910K	FS2865K	FS3820K
AC	AC Output Power (kVA/kW) @40°C ^[4]	2005	3005	4010	1955	2935	3915	1910	2865	3820
	AC Output Power (kVA/kW) @50°C ^[4]	1860	2790	3720	1815	2725	3635	1775	2660	3545
	Operating Grid Voltage (VAC)	630V ±10%			615V ±10%			600V ±10%		
DC	DC Voltage Range ^[5]	891V - 1500V			870V - 1500V			849V - 1500V		
EFFICIENCY	Efficiency (Max) (η) ^[6]	98.88%			98.77%			98.78%		
	Euroeta (η) ^[6]	98.45%			98.37%			98.35%		

NOTES

- [1] Consult P-Q charts available: $Q(kVar) = \sqrt{(S(kVA))^2 - P(kW)^2}$.
- [2] Consult Power Electronics for Freemaq DC/DC connection configurations.
- [3] Optional available for temperatures down to -35°C.
- [4] Values at 1.00-Vac nom and CosPhi=1. Consult Power Electronics for derating curves.
- [5] 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.
- [6] Consult Power Electronics for Frame 2 and Frame 3 efficiencies.