

HEMK

Offers the advantages of both central and string inverters. The full front access simplifies the maintenance tasks.



690V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS2195K	FS3290K	FS4390K
AC Output Power (kVA/kW) @40°C ^[1]	2195	3290	4390
AC Output Power (kVA/kW) @50°C ^[1]	2035	3055	4075
Max. AC Output Current (A) @40°C	1837	2756	3674
OUTPUT	690V ±10%		
Operating Grid Voltage (VAC)	690V ±10%		
Operating Grid Frequency (Hz)	50/60Hz		
Current Harmonic Distortion (THDi)	< 3% per IEEE519		
Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
INPUT	976V - 1500V		
DC Voltage Range ^[3]	976V - 1500V		
Maximum DC Voltage	1500V		
Number of Inputs	Up to 40		
Max. DC Continuous Current (A) ^[4]	2295	3443	4590
Max. DC Short Circuit Current (A) ^[4]	3470	5205	6940
Number of MPPT (floating systems)	1	1	1, optionally 2 or 4
Number of Freemaq DC/DC ^[4]	Up to 2 (Bus Plus Basic) or 4 (Bus Plus Advanced)		
EFFICIENCY	98.84%	98.87%	98.93%
Efficiency (Max) (η)	98.84%	98.87%	98.93%
Euroeta (η)	98.45%	98.48%	98.65%
CABINET	9.8 x 6.6 x 7.2		
Dimensions [WxDxH] (ft)	9.8 x 6.6 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		
Degree of Protection	NEMA 3R / IP55		
ENVIROMENT	-35°C to +60°C, >50°C / Active Power derating		
Permissible Ambient Temperature	-35°C to +60°C, >50°C / Active Power derating		
Relative Humidity	4% to 100% non-condensing		
Max. Altitude (above sea level)	2000m / >2000m power derating (Max. 4000m)		
Communication Protocol	Modbus TCP		
CONTROL INTERFACE	Optional		
Power Plant Controller	Optional		
Keyed ON/OFF Switch	Standard		
PROTECTIONS	GFDI and isolation monitoring device		
Ground Fault Protection	GFDI and isolation monitoring device		
Humidity Control	Active heating		
General AC Protection & Disconn.	Circuit breaker		
General DC Protection & Disconn.	Fuses, DC switch-disconnectors		
Oversvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2)		
CERTIFICATIONS & STANDARDS	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
Safety	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
Installation	NEC 2020 / IEC		
Utility Interconnect	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

NOTES

[1] Values at 1.00-Vac nom and cosφ=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.
 [4] Consult Power Electronics for Freemaq DC/DC connection configurations (available for Frame 4).

660V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS2101K	FS3151K	FS4200K
AC Output Power (kVA/kW) @40°C ^[1]	2100	3150	4200
AC Output Power (kVA/kW) @50°C ^[1]	1950	2925	3900
Max. AC Output Current (A) @40°C	1837	2756	3674
OUTPUT	660V ±10%		
Operating Grid Voltage (VAC)	660V ±10%		
Operating Grid Frequency (Hz)	50/60Hz		
Current Harmonic Distortion (THDi)	< 3% per IEEE519		
Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
INPUT	934V - 1500V		
DC Voltage Range ^[3]	934V - 1500V		
Maximum DC Voltage	1500V		
Number of Inputs	Up to 40		
Max. DC Continuous Current (A) ^[4]	2295	3443	4590
Max. DC Short Circuit Current (A) ^[4]	3470	5205	6940
Number of MPPT (floating systems)	1	1	1, optionally 2 or 4
Number of Freemaq DC/DC ^[4]	Up to 2 (Bus Plus Basic) or 4 (Bus Plus Advanced)		
EFFICIENCY	98.81%	98.84%	98.90%
Efficiency (Max) (η)	98.81%	98.84%	98.90%
Euroeta (η)	98.45%	98.48%	98.65%
CABINET	9.8 x 6.6 x 7.2		
Dimensions [WxDxH] (ft)	9.8 x 6.6 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		
Degree of Protection	NEMA 3R / IP55		
ENVIROMENT	-35°C to +60°C, >50°C / Active Power derating		
Permissible Ambient Temperature	-35°C to +60°C, >50°C / Active Power derating		
Relative Humidity	4% to 100% non-condensing		
Max. Altitude (above sea level)	2000m / >2000m power derating (Max. 4000m)		
Communication Protocol	Modbus TCP		
CONTROL INTER-FACE	Optional		
Power Plant Controller	Optional		
Keyed ON/OFF Switch	Standard		
PROTECTIONS	GFDI and isolation monitoring device		
Ground Fault Protection	GFDI and isolation monitoring device		
Humidity Control	Active heating		
General AC Protection & Disconn.	Circuit breaker		
General DC Protection & Disconn.	Fuses, DC switch-disconnectors		
Oversvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2)		
CERTIFICATIONS & STANDARDS	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
Safety	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
Installation	NEC 2020 / IEC		
Utility Interconnect	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

NOTES

[1] Values at 1.00-Vac nom and cosφ=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.
 [4] Consult Power Electronics for Freemaq DC/DC connection configurations (available for Frame 4).

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645V

	FRAME 2	FRAME 3	FRAME 4	
REFERENCES	FS2055K	FS3080K	FS4105K	
OUTPUT	AC Output Power (kVA/kW) @40°C ^[1]	2055	4105	
	AC Output Power (kVA/kW) @50°C ^[1]	1905	3810	
	Max. AC Output Current (A) @40°C	1837	3674	
	Operating Grid Voltage (VAC)	645V ±10%		
	Operating Grid Frequency (Hz)	50/60Hz		
INPUT	Current Harmonic Distortion (THDi)	< 3% per IEEE519		
	Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
EFFICIENCY	DC Voltage Range ^[3]	913V - 1500V		
	Maximum DC Voltage	1500V		
	Number of Inputs	Up to 40		
	Max. DC Continuous Current (A) ^[4]	2295	3443	4590
	Max. DC Short Circuit Current (A) ^[4]	3470	5205	6940
CABINET	Number of MPPT (floating systems)	1	1, optionally 2 or 4	
	Number of Freemaq DC/DC ^[4]	Up to 2 (Bus Plus Basic) or 4 (Bus Plus Advanced)		
ENVIRONMENT	Efficiency (Max) (η)	98.78%	98.87%	
	Euroeta (η)	98.40%	98.60%	
CONTROL INTER-FACE	Dimensions [WxDxH] (ft)	9.8 x 6.6 x 7.2		
	Dimensions [WxDxH] (m)	3.0 x 2.0 x 2.2		
PROTECTIONS	Weight (lbs)	11465	12125	
	Weight (kg)	5200	5500	
CERTIFICATIONS & STANDARDS	Type of Ventilation	Forced air cooling		
	Degree of Protection	NEMA 3R / IP55		
ENVIRONMENT	Permissible Ambient Temperature	-35°C to +60°C, >50°C / Active Power derating		
	Relative Humidity	4% to 100% non-condensing		
CONTROL INTER-FACE	Max. Altitude (above sea level)	2000m / >2000m power derating (Max. 4000m)		
	Communication Protocol	Modbus TCP		
PROTECTIONS	Power Plant Controller	Optional		
	Keyed ON/OFF Switch	Standard		
CERTIFICATIONS & STANDARDS	Ground Fault Protection	GFDI and isolation monitoring device		
	Humidity Control	Active heating		
ENVIRONMENT	General AC Protection & Disconn.	Circuit breaker		
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors		
CONTROL INTER-FACE	Overvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2)		
	Safety	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
PROTECTIONS	Installation	NEC 2020 / IEC		
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

NOTES

[1] Values at 1.00-Vac nom and cosφ=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.
 [4] Consult Power Electronics for Freemaq DC/DC connection configurations (available for Frame 4).

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630V

	FRAME 2	FRAME 3	FRAME 4	
REFERENCES	FS2005K	FS3005K	FS4010K	
OUTPUT	AC Output Power (kVA/kW) @40°C ^[1]	2005	4010	
	AC Output Power (kVA/kW) @50°C ^[1]	1860	3720	
	Max. AC Output Current (A) @40°C	1837	3674	
	Operating Grid Voltage (VAC)	630V ±10%		
	Operating Grid Frequency (Hz)	50/60Hz		
INPUT	Current Harmonic Distortion (THDi)	< 3% per IEEE519		
	Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
EFFICIENCY	DC Voltage Range ^[3]	891V - 1500V		
	Maximum DC Voltage	1500V		
	Number of Inputs	Up to 40		
	Max. DC Continuous Current (A) ^[4]	2295	3443	4590
	Max. DC Short Circuit Current (A) ^[4]	3470	5205	6940
CABINET	Number of MPPT (floating systems)	1	1, optionally 2 or 4	
	Number of Freemaq DC/DC ^[4]	Up to 2 (Bus Plus Basic) or 4 (Bus Plus Advanced)		
ENVIRONMENT	Efficiency (Max) (η)	98.76%	98.85%	
	Euroeta (η)	98.39%	98.59%	
CONTROL INTER-FACE	Dimensions [WxDxH] (ft)	9.8 x 6.6 x 7.2		
	Dimensions [WxDxH] (m)	3.0 x 2.0 x 2.2		
PROTECTIONS	Weight (lbs)	11465	12125	
	Weight (kg)	5200	5500	
CERTIFICATIONS & STANDARDS	Type of Ventilation	Forced air cooling		
	Degree of Protection	NEMA 3R / IP55		
ENVIRONMENT	Permissible Ambient Temperature	-35°C to +60°C, >50°C / Active Power derating		
	Relative Humidity	4% to 100% non-condensing		
CONTROL INTER-FACE	Max. Altitude (above sea level)	2000m / >2000m power derating (Max. 4000m)		
	Communication Protocol	Modbus TCP		
PROTECTIONS	Power Plant Controller	Optional		
	Keyed ON/OFF Switch	Standard		
CERTIFICATIONS & STANDARDS	Ground Fault Protection	GFDI and isolation monitoring device		
	Humidity Control	Active heating		
ENVIRONMENT	General AC Protection & Disconn.	Circuit breaker		
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors		
CONTROL INTER-FACE	Overvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2)		
	Safety	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
PROTECTIONS	Installation	NEC 2020 / IEC		
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

NOTES

[1] Values at 1.00-Vac nom and cosφ=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.
 [4] Consult Power Electronics for Freemaq DC/DC connection configurations (available for Frame 4).

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615V

	FRAME 2	FRAME 3	FRAME 4	
REFERENCES	FS1955K	FS2935K	FS3915K	
OUTPUT	AC Output Power (kVA/kW) @40°C ^[1]	1955	2935	
	AC Output Power (kVA/kW) @50°C ^[1]	1815	2725	
	Max. AC Output Current (A) @40°C	1837	2756	
	Operating Grid Voltage (VAC)	615V ±10%		
	Operating Grid Frequency (Hz)	50/60Hz		
OUTPUT	Current Harmonic Distortion (THDi)	< 3% per IEEE519		
	Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
INPUT	DC Voltage Range ^[3]	870V - 1500V		
	Maximum DC Voltage	1500V		
	Number of Inputs	Up to 40		
	Max. DC Continuous Current (A) ^[4]	2295	3443	4590
	Max. DC Short Circuit Current (A) ^[4]	3470	5205	6940
	Number of MPPT (floating systems)	1	1	1, optionally 2 or 4
	Number of Freemaq DC/DC ^[4]	Up to 2 (Bus Plus Basic) or 4 (Bus Plus Advanced)		
EFFICIENCY	Efficiency (Max) (η)	98.78%	98.81%	98.87%
	Euroeta (η)	98.40%	98.43%	98.60%
CABINET	Dimensions [WxDxH] (ft)	9.8 x 6.6 x 7.2		
	Dimensions [WxDxH] (m)	3.0 x 2.0 x 2.2		
	Weight (lbs)	11465	11795	12125
	Weight (kg)	5200	5350	5500
ENVIROMENT	Type of Ventilation	Forced air cooling		
	Degree of Protection	NEMA 3R / IP55		
	Permissible Ambient Temperature	-35°C to +60°C, >50°C / Active Power derating		
	Relative Humidity	4% to 100% non-condensing		
	Max. Altitude (above sea level)	2000m / >2000m power derating (Max. 4000m)		
CONTROL INTER-FACE	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, DC switch-disconnectors		
	Overvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2)		
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
	Installation	NEC 2020 / IEC		
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

NOTES

[1] Values at 1.00·Vac nom and cosφ=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.
[4] Consult Power Electronics for Freemaq DC/DC connection configurations (available for Frame 4).

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600V

	FRAME 2	FRAME 3	FRAME 4	
REFERENCES	FS1910K	FS2865K	FS3820K	
OUTPUT	AC Output Power (kVA/kW) @40°C ^[1]	1910	2865	
	AC Output Power (kVA/kW) @50°C ^[1]	1775	2660	
	Max. AC Output Current (A) @40°C	1837	2756	
	Operating Grid Voltage (VAC)	600V ±10%		
	Operating Grid Frequency (Hz)	50/60Hz		
OUTPUT	Current Harmonic Distortion (THDi)	< 3% per IEEE519		
	Power Factor (cosine phi) ^[2]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
INPUT	DC Voltage Range ^[3]	849V - 1500V		
	Maximum DC Voltage	1500V		
	Number of Inputs	Up to 40		
	Max. DC Continuous Current (A) ^[4]	2295	3443	4590
	Max. DC Short Circuit Current (A) ^[4]	3470	5205	6940
	Number of MPPT (floating systems)	1	1	1, optionally 2 or 4
	Number of Freemaq DC/DC ^[4]	Up to 2 (Bus Plus Basic) or 4 (Bus Plus Advanced)		
EFFICIENCY	Efficiency (Max) (η)	98.76%	98.79%	98.85%
	Euroeta (η)	98.39%	98.42%	98.59%
CABINET	Dimensions [WxDxH] (ft)	9.8 x 6.6 x 7.2		
	Dimensions [WxDxH] (m)	3.0 x 2.0 x 2.2		
	Weight (lbs)	11465	11795	12125
	Weight (kg)	5200	5350	5500
ENVIROMENT	Type of Ventilation	Forced air cooling		
	Degree of Protection	NEMA 3R / IP55		
	Permissible Ambient Temperature	-35°C to +60°C, >50°C / Active Power derating		
	Relative Humidity	4% to 100% non-condensing		
	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, DC switch-disconnectors		
	Overvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2)		
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.107.1-16 / IEC 62109-1 / IEC 62109-2		
	Installation	NEC 2020 / IEC		
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

NOTES

[1] Values at 1.00·Vac nom and cosφ=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.
[4] Consult Power Electronics for Freemaq DC/DC connection configurations (available for Frame 4).