

TECHNICAL CHARACTERISTICS

HEMK 660V

		FRAME 1	FRAME 2
REFERENCE		FS2200K	FS3300K
OUTPUT	AC Output Power(kVA/kW) @50°C ^[1]	2200	3300
	AC Output Power(kVA/kW) @25°C ^[1]	2420	3630
	Max. AC Output Current (A) @25°C	2120	3175
	Operating Grid Voltage(VAC) ^[2]	660V ±10%	
	Operating Grid Frequency(Hz)	50Hz/60Hz	
	Current Harmonic Distortion (THDi)	< 3% per IEEE519	
	Power Factor (cosine phi) ^[3]	0.5 leading ... 0.5 lagging adjustable / Reactive Power injection at night	
INPUT	MPPT @full power (VDC)	934V-1310V	
	Maximum DC voltage	1500V	
	Number of inputs ^[2]	Up to 36	
	Number of MPPTs	Up to 4	Up to 6
	Max. DC continuous current (A)	2645	3970
	Max. DC short circuit current (A)	4000	6000
EFFICIENCY & AUXILIARY SUPPLY	Max. Efficiency PAC, nom (η)	98.5% (preliminary)	
	Max. Power Consumption (KVA)	8	10
CABINET	Dimensions [WxDxH] (ft)	9 x 7 x 7	12 x 7 x 7
	Dimensions [WxDxH] (m)	2.7 x 2.2 x 2.2	3.7 x 2.2 x 2.2
	Type of ventilation	Forced air cooling	
ENVIRONMENT	Degree of protection	NEMA3R - IP54 / IP65 available	
	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)	
	Noise level ^[4]	< 79 dBA	
CONTROL INTERFACE	Interface	Graphic Display	
	Communication protocol	Modbus TCP	
	Plant Controller Communication	Optional	
	Keyed ON/OFF switch	Standard	
PROTECTIONS	Ground Fault Protection	GFDI and Isolation monitoring device	
	General AC Protection	Circuit Breaker	
	General DC Protection	Fuses	
	Overvoltage Protection	AC, DC Inverter and auxiliary supply type 2	
CERTIFICATIONS	Safety	UL1741, CSA 22.2 No.107.1-01, UL62109-1, IEC62109-1, IEC62109-2	
	Compliance	NEC 2014 / NEC 2017 (optional)	
	Utility interconnect	IEEE 1547-2003	

[1] Values at 1.00-Vac nom and cos Φ= 1.

Consult Power Electronics for derating curves.

[2] Consult Power Electronics for other configurations.

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

[4] Readings taken 1 meter from the back of the unit.