

Brochure 21/22
Solar Inverters

Solar Solutions

SO

LA

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PE genetics

Our products

Page. 8 – 52

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Our secret

We are the heart of photovoltaic plants

We handle everything in-house: from design and manufacture to testing.



+10k
solar inverters sold



1166 solar projects
around the world

#1 Manufacturer of solar
inverters in America,
Europe and Oceania.

+ 25
International
delegations

More than

+ 60 GW
of installed
AC power
Solar + Storage

+ 30 GW
of annual
production
capacity

+ 35
years of
excellence

Freesun is the Power Electronics solar inverters range. Power Electronics has become the leading supplier of utility-scale plant installations in America, Europe and Oceania and continues to expand worldwide.



References

Our success around the world

FREESUN

SOLAR INVERTERS



Long-lasting



Compact



Smart

Designed for utility-scale solar applications that require the advantages of a central inverter combined with the modular design of string architecture.

Our vertical integration gives us the flexibility and specialization to adapt customer requirements and still provide very short delivery times.

SOLAR INVERTER

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HEMK

HEMK

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



Scan me!

These product has the following characteristics

1 Easy maintenance

The advantages of a **central inverter** with the modularity of the **string inverters**.



Designed to be easily replaceable on the field with a safe, reliable, and fast Plug&Play assembly system.

Includes up to 4 FRUs (Field Replaceable Units).

Bus Plus

Combine solar and storage.

The Bus Plus feature allows the connection of up to four Freemaq DC/DC converters. It's the most cost-competitive solution for solar-plus-storage retrofits.

3 Active heating

Active heating functionality is included by default and it is automatically activated avoiding internal condensation at very low temperatures when the inverter is not actively exporting power.

It also can shift to reactive power compensation mode.

Patented

Advanced grid support

Capable of operating on any power system.

Offering advanced grid support functionalities to comply with the most restrictive grid codes.

4

Multilevel topology

The 3 level IGBT topology reduces stage losses, increases inverter efficiency, and minimizes total harmonic distortion. High efficiency to deliver the lowest cost of energy (LCOE).

5



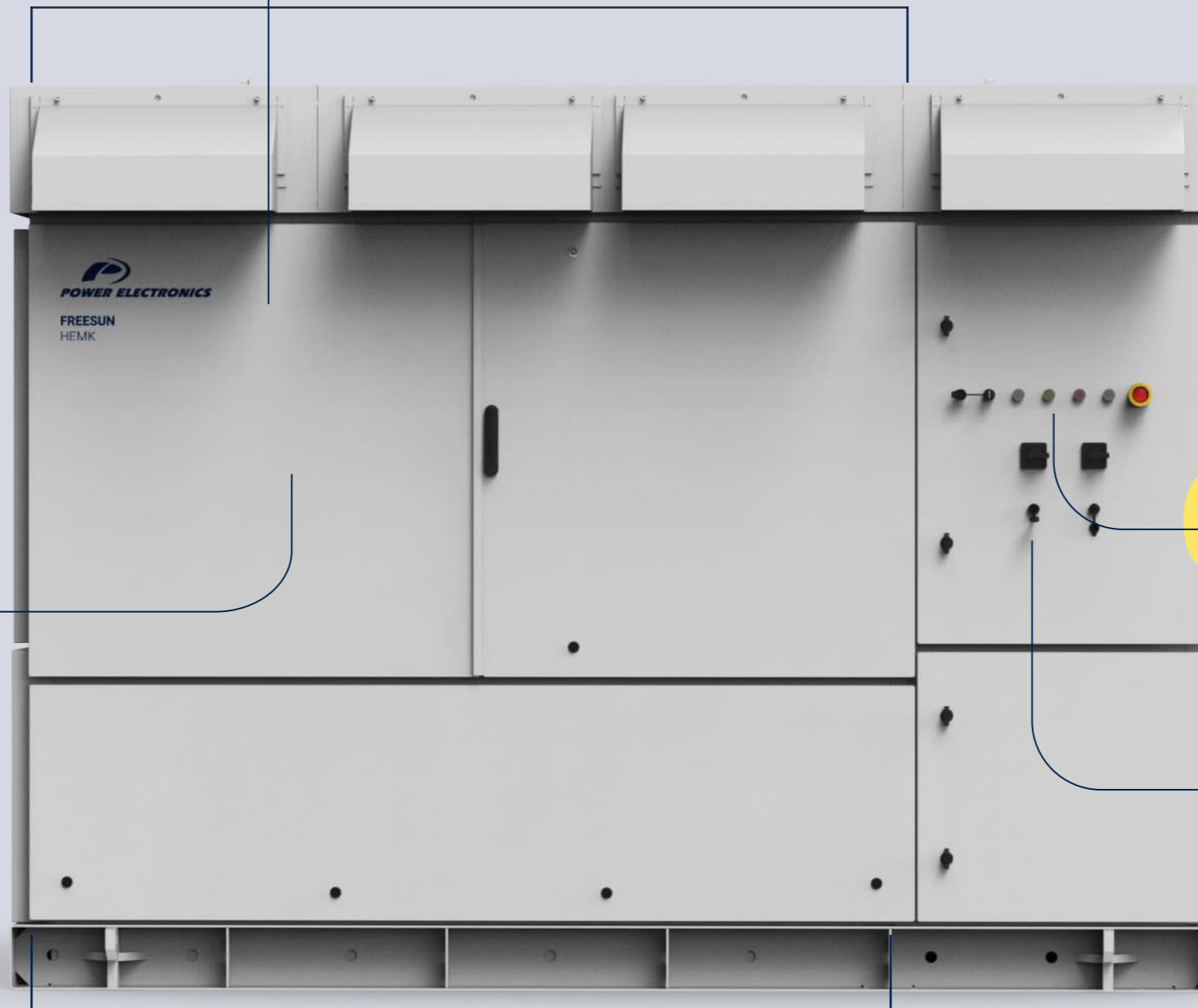
FRESUN
HEMK

HEMK

King of compacts

Up to **1500**V

POWER MODULES



POWER ELECTRONICS
FREESUN
HEMK

6 different AC voltages

Can reach up to a nominal power of

4.4 MVA

DC-coupled storage system from 1200 kW to 4800 kW

DC CABINET

AUXILIARY PANEL

HEMK

690V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS2195K	FS3290K	FS4390K
AC	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
AC	Operating Grid Voltage (VAC)		
	690V ±10%		
	Operating Grid Frequency (Hz)		
	50/60Hz		
AC	Current Harmonic Distortion (THDi)		
	< 3% per IEEE519		
DC	Power Factor (cosine phi) ^[2]		
	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
	DC Voltage Range ^[3]		
	976V - 1500V		
	Maximum DC Voltage		
	1500V		
DC	Number of Inputs		
	Up to 20	Up to 30	Up to 40
	Max. DC Continuous Current (A) ^[4]		
	2295	3443	4590
DC	Max. DC Short Circuit Current (A) ^[4]		
	3470	5205	6940
DC	Number of Freemaq DC/DC ^[4]		
	Up to 4		
EFFICIENCY	Efficiency (Max) (η) (preliminary)		
	98.84%	98.87%	98.93%
EFFICIENCY	Euroeta (η) (preliminary)		
	98.45%	98.48%	98.65%
CABINET	Dimensions [WxDxH] (ft)		
	9.8 x 6.5 x 7.2		
	Dimensions [WxDxH] (m)		
	3.0 x 2.0 x 2.2		
CABINET	Weight (lbs)		
	11465	11795	12125
CABINET	Weight (kg)		
	5200	5350	5500
ENVIROMENT	Type of Ventilation		
	Forced air cooling		
	Degree of Protection		
	NEMA 3R / IP55		
ENVIROMENT	Permissible Ambient Temperature ^[5]		
	-25°C to +60°C, >50°C / Active Power derating		
	Relative Humidity		
4% to 100% non-condensing			
ENVIROMENT	Max. Altitude (above sea level)		
	2000m / >2000m power derating (Max. 4000m)		
CONTROL INTERFACE	Communication Protocol		
	Modbus TCP		
	Power Plant Controller		
Optional			
CONTROL INTERFACE	Keyed ON/OFF Switch		
	Standard		
PROTECTIONS	Ground Fault Protection		
	GFDI and isolation monitoring device		
	Humidity Control		
	Active heating		
PROTECTIONS	General AC Protection & Disconn.		
	Circuit breaker		
PROTECTIONS	General DC Protection & Disconn.		
	Fuses, DC switch-disconnectors		
PROTECTIONS	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		
CERTIFICATIONS & STANDARDS	NEC 2020 / IEC		
	Utility Interconnect		
IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014			

HEMK

660V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS1910K	FS2865K	FS3820K
AC	AC Output Power (kVA/kW) @40°C ^[1]		
	1910	2865	3820
	AC Output Power (kVA/kW) @50°C ^[1]		
	1775	2660	3545
	Max. AC Output Current (A) @40°C		
	1837	2756	3674
AC	Operating Grid Voltage (VAC)		
	600V ±10%		
	Operating Grid Frequency (Hz)		
	50/60Hz		
AC	Current Harmonic Distortion (THDi)		
	< 3% per IEEE519		
DC	Power Factor (cosine phi) ^[2]		
	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
	DC Voltage Range ^[3]		
	934V - 1500V		
	Maximum DC Voltage		
	1500V		
DC	Number of Inputs		
	Up to 20	Up to 30	Up to 40
	Max. DC Continuous Current (A) ^[4]		
	2295	3443	4590
DC	Max. DC Short Circuit Current (A) ^[4]		
	3470	5205	6940
DC	Number of Freemaq DC/DC ^[4]		
	Up to 4		
EFFICIENCY	Efficiency (Max) (η) (preliminary)		
	98.81%	98.84%	98.90%
EFFICIENCY	Euroeta (η) (preliminary)		
	98.45%	98.48%	98.65%
CABINET	Dimensions [WxDxH] (ft)		
	9.8 x 6.6 x 7.2		
	Dimensions [WxDxH] (m)		
	3.0 x 2.0 x 2.2		
CABINET	Weight (lbs)		
	11465	11795	12125
CABINET	Weight (kg)		
	5200	5350	5500
ENVIROMENT	Type of Ventilation		
	Forced air cooling		
	Degree of Protection		
	NEMA 3R / IP55		
ENVIROMENT	Permissible Ambient Temperature ^[5]		
	-25°C to +60°C, >50°C / Active Power derating		
	Relative Humidity		
4% to 100% non-condensing			
ENVIROMENT	Max. Altitude (above sea level)		
	2000m / >2000m power derating (Max. 4000m)		
CONTROL INTERFACE	Communication Protocol		
	Modbus TCP		
	Power Plant Controller		
Optional			
CONTROL INTERFACE	Keyed ON/OFF Switch		
	Standard		
PROTECTIONS	Ground Fault Protection		
	GFDI and isolation monitoring device		
	Humidity Control		
	Active heating		
PROTECTIONS	General AC Protection & Disconn.		
	Circuit breaker		
PROTECTIONS	General DC Protection & Disconn.		
	Fuses, DC switch-disconnectors		
PROTECTIONS	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		
CERTIFICATIONS & STANDARDS	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 Power Electronics for other configurations.
[3] Consult P-Q charts available: $Q(kVar)=\sqrt{(S(kVA))^2-P(kW)^2}$.
[4] Consult Power Electronics for derating curves.
[5] Consult Power Electronics for Freemaq DC/DC connection configurations.
[6] Consult Power Electronics for temperatures below -25°C
[7] Consult Power Electronics for altitudes above 1000m.

NOTES

- [1] Values at 1.00·Vac nom and cosφ=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] Consult Power Electronics for derating curves.
[5] Consult Power Electronics for Freemaq DC/DC connection configurations.
[6] Consult Power Electronics for temperatures below -25°C.
[7] Consult Power Electronics for altitudes above 1000m.

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645V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS2055K	FS3080K	FS4105K
AC	AC Output Power (kVA/kW) @40°C ^[1]		
	2055	3080	4105
	AC Output Power (kVA/kW) @50°C ^[1]		
	1905	2855	3810
	Max. AC Output Current (A) @40°C		
	1837	2756	3674
AC	Operating Grid Voltage (VAC)		
	645V ±10%		
	Operating Grid Frequency (Hz)		
	50/60Hz		
AC	Current Harmonic Distortion (THDi)		
	< 3% per IEEE519		
DC	Power Factor (cosine phi) ^[2]		
	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
	DC Voltage Range ^[3]		
	913V - 1500V		
	Maximum DC Voltage		
	1500V		
DC	Number of Inputs	Up to 20	Up to 30
	Max. DC Continuous Current (A) ^[4]	2295	3443
	Max. DC Short Circuit Current (A) ^[4]	3470	5205
	Number of Freemaq DC/DC ^[4]	Up to 4	
EFFICIENCY	Efficiency (Max) (η) (preliminary)	98.78%	98.81%
	Euroeta (η) (preliminary)	98.40%	98.43%
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
	5200	5350	
ENVIROMENT	Type of Ventilation		
	Forced air cooling		
	Degree of Protection		
	NEMA 3R / IP55		
	Permissible Ambient Temperature ^[5]		
	-25°C to +60°C, >50°C / Active Power derating		
CONTROL INTERFACE	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		
PROTECTIONS	Keyed ON/OFF Switch		
	Standard		
	Ground Fault Protection		
	GFDI and isolation monitoring device		
	Humidity Control		
	Active heating		
PROTECTIONS	General AC Protection & Disconn.		
	Circuit breaker		
	General DC Protection & Disconn.		
	Fuses, DC switch-disconnectors		
PROTECTIONS	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		
CERTIFICATIONS & STANDARDS	Utility Interconnect		
	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

HEMK

630V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS2005K	FS3005K	FS4010K
AC	AC Output Power (kVA/kW) @40°C ^[1]		
	2005	3005	4010
	AC Output Power (kVA/kW) @50°C ^[1]		
	1860	2790	3720
	Max. AC Output Current (A) @40°C		
	1837	2756	3674
AC	Operating Grid Voltage (VAC)		
	630V ±10%		
	Operating Grid Frequency (Hz)		
	50/60Hz		
AC	Current Harmonic Distortion (THDi)		
	< 3% per IEEE519		
DC	Power Factor (cosine phi) ^[2]		
	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
	DC Voltage Range ^[3]		
	891V - 1500V		
	Maximum DC Voltage		
	1500V		
DC	Number of Inputs	Up to 20	Up to 30
	Max. DC Continuous Current (A) ^[4]	2295	3443
	Max. DC Short Circuit Current (A) ^[4]	3470	5205
	Number of Freemaq DC/DC ^[4]	Up to 4	
EFFICIENCY	Efficiency (Max) (η) (preliminary)	98.76%	98.79%
	Euroeta (η) (preliminary)	98.39%	98.42%
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
	5200	5350	
ENVIROMENT	Type of Ventilation		
	Forced air cooling		
	Degree of Protection		
	NEMA 3R / IP55		
	Permissible Ambient Temperature ^[5]		
	-25°C to +60°C, >50°C / Active Power derating		
CONTROL INTERFACE	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		
PROTECTIONS	Keyed ON/OFF Switch		
	Standard		
	Ground Fault Protection		
	GFDI and isolation monitoring device		
	Humidity Control		
	Active heating		
PROTECTIONS	General AC Protection & Disconn.		
	Circuit breaker		
	General DC Protection & Disconn.		
	Fuses, DC switch-disconnectors		
PROTECTIONS	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		
CERTIFICATIONS & STANDARDS	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)=√(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).
- [5] Consult Power Electronics for temperatures below -25°C.

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)=√(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).
- [5] Consult Power Electronics for temperatures below -25°C.

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615V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS1955K	FS2935K	FS3915K
AC	AC Output Power (kVA/kW) @40°C ^[1]		
	1955	2935	3915
	AC Output Power (kVA/kW) @50°C ^[1]		
	1815	2725	3635
	Max. AC Output Current (A) @40°C		
	1837	2756	3674
AC	Operating Grid Voltage (VAC)		
	615V ±10%		
	Operating Grid Frequency (Hz)		
	50/60Hz		
AC	Current Harmonic Distortion (THDi)		
	< 3% per IEEE519		
DC	Power Factor (cosine phi) ^[2]		
	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
	DC Voltage Range ^[3]		
	870V - 1500V		
	Maximum DC Voltage		
	1500V		
DC	Number of Inputs	Up to 20	Up to 30
	Max. DC Continuous Current (A) ^[4]	2295	3443
	Max. DC Short Circuit Current (A) ^[4]	3470	5205
	Number of Freemaq DC/DC ^[4]	Up to 4	
EFFICIENCY	Efficiency (Max) (η) (preliminary)		
	98.76%	98.79%	98.84%
EFFICIENCY	Euroeta (η) (preliminary)		
	98.38%	98.41%	98.57%
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
	5200	5350	
ENVIROMENT	Type of Ventilation		
	Forced air cooling		
	Degree of Protection		
	NEMA 3R / IP55		
	Permissible Ambient Temperature ^[5]		
	-25°C to +60°C, >50°C / Active Power derating		
ENVIROMENT	Relative Humidity		
	4% to 100% non-condensing		
ENVIROMENT	Max. Altitude (above sea level)		
	2000m / >2000m power derating (Max. 4000m)		
CONTROL INTERFACE	Communication Protocol		
	Modbus TCP		
	Power Plant Controller		
	Optional		
CONTROL INTERFACE	Keyed ON/OFF Switch		
	Standard		
	Ground Fault Protection		
	GFDI and isolation monitoring device		
PROTECTIONS	Humidity Control		
	Active heating		
	General AC Protection & Disconn.		
	Circuit breaker		
	General DC Protection & Disconn.		
	Fuses, DC switch-disconnectors		
PROTECTIONS	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		
CERTIFICATIONS & STANDARDS	Utility Interconnect		
	IEEE 1547:2018 / UL 1741 SB / IEC 62116:2014		

HEMK

600V

	FRAME 2	FRAME 3	FRAME 4
REFERENCES	FS1910K	FS2865K	FS3820K
AC	AC Output Power (kVA/kW) @40°C ^[1]		
	1910	2865	3820
	AC Output Power (kVA/kW) @50°C ^[1]		
	1775	2660	3545
	Max. AC Output Current (A) @40°C		
	1837	2756	3674
AC	Operating Grid Voltage (VAC)		
	600V ±10%		
	Operating Grid Frequency (Hz)		
	50/60Hz		
AC	Current Harmonic Distortion (THDi)		
	< 3% per IEEE519		
DC	Power Factor (cosine phi) ^[2]		
	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night		
	DC Voltage Range ^[3]		
	849V - 1500V		
	Maximum DC Voltage		
	1500V		
DC	Number of Inputs	Up to 20	Up to 30
	Max. DC Continuous Current (A) ^[4]	2295	3443
	Max. DC Short Circuit Current (A) ^[4]	3470	5205
	Number of Freemaq DC/DC ^[4]	Up to 4	
EFFICIENCY	Efficiency (Max) (η) (preliminary)		
	98.76%	98.78%	98.84%
EFFICIENCY	Euroeta (η) (preliminary)		
	98.37%	98.39%	98.56%
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
	5200	5350	
ENVIROMENT	Type of Ventilation		
	Forced air cooling		
	Degree of Protection		
	NEMA 3R / IP55		
	Permissible Ambient Temperature ^[5]		
	-25°C to +60°C, >50°C / Active Power derating		
ENVIROMENT	Relative Humidity		
	4% to 100% non-condensing		
ENVIROMENT	Max. Altitude (above sea level)		
	2000m / >2000m power derating (Max. 4000m)		
CONTROL INTERFACE	Communication Protocol		
	Modbus TCP		
	Power Plant Controller		
	Optional		
CONTROL INTERFACE	Keyed ON/OFF Switch		
	Standard		
	Ground Fault Protection		
	GFDI and isolation monitoring device		
PROTECTIONS	Humidity Control		
	Active heating		
	General AC Protection & Disconn.		
	Circuit breaker		
	General DC Protection & Disconn.		
	Fuses, DC switch-disconnectors		
PROTECTIONS	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		
CERTIFICATIONS & STANDARDS	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)=√(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).
- [5] Consult Power Electronics for temperatures below -25°C.

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)=√(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).
- [5] Consult Power Electronics for temperatures below -25°C.

THE AMERICAN HEM IDOL

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HEM

The turn-key solution, simplifies the task of designing the installation, and reduces connection costs.



Scan me!

These product has the following characteristics

1 Easy maintenance

The advantages of a central inverter with the modularity of the string inverters.



Designed to be easily replaceable on the field with a safe, reliable, and fast Plug&Play assembly system.

Includes up to 4 FRUs (Field Replaceable Units).

Bus Plus 2

Combine solar and storage.

The Bus Plus feature allows the connection of up to four Freemaq DC/DC converters. It's the most cost-competitive solution for solar-plus-storage retrofits.

3 ECON MODE

Remove no-load losses.

Disconnecting the power station from the grid and taking the medium-voltage transformer out of the circuit, the continuous energy cost of no-load losses is eliminated.

Advanced grid support 4

Capable of operating on any power system, Offering advanced grid support functionalities to comply with the most restrictive grid codes.

5 iCOOL 3

The most innovative cooling system.

Our own air ventilation system provides a constant flow of clean air inside the equipment, without the need of liquid cooling.

6 Active heating

Patented

Active heating functionality is included by default and is automatically activated avoiding internal condensation at very low temperatures when the inverter is not actively exporting power.

It also can shift to reactive power compensation mode.

7 Multilevel topology

The 3 level IGBT topology reduces stage losses, increases inverter efficiency, and minimizes total harmonic distortion. High efficiency to deliver the lowest cost of energy (LCOE).



HEM

The ultimate medium-voltage inverter

1500 Vdc

POWER MODULES

Can reach up to a nominal power of

4.2 MVA

DC-coupled storage system from 1200 kW to 4800 kW



DC CABINET

AUXILIARY PANEL

MV TRANSFORMER

MV SWITCHGEAR

HEM

US

REFERENCES	FS4200M	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4200
	AC Output Power (kVA/kW) @50°C ^[1]	3900
	Operating Grid Voltage (kV) ^[2]	34.5kV ±10%
	Operating Grid Frequency (Hz)	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
DC	DC Voltage Range ^[4]	934V - 1500V
	Maximum DC Voltage	1500V
	Number of Inputs	Up to 40
	Max. DC Continuous Current (A) ^[5]	4590
	Max. DC Short Circuit Current (A) ^[5]	6940
	Number of Freemaq DC/DC ^[5]	Up to 4
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.8% including MV transformer
	Euroeta (η) (preliminary)	97.51% including MV transformer
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2
	Weight (lbs)	30865
	Weight (kg)	14000
	Type of Ventilation	Forced air cooling
ENVIROMENT	Degree of Protection	NEMA 3R
	Permissible Ambient Temperature ^[6]	-25°C to +60°C, >50°C / Active power derating
	Relative Humidity	4% to 100% non-condensing
	Max. Altitude (above sea level) ^[7]	2000m
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.	MV switchgear (20 or 25 kA)
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors
	Oversvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2 for DC side)
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.107.1-16
	Installation	NEC 2020
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB

NOTES

- [1] Values at 1.00-Vac nom and cosφ=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] Consult Power Electronics for derating curves.
- [5] Consult Power Electronics for Freemaq DC/DC connection configurations.
- [6] Consult Power Electronics for temperatures below -25°C
- [7] Consult Power Electronics for altitudes above 1000m.

HEM

IEC

REFERENCES	FS4200M	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4200
	AC Output Power (kVA/kW) @50°C ^[1]	3900
	Operating Grid Voltage (kV) ^[2]	34.5kV ±10%
	Operating Grid Frequency (Hz)	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
DC	DC Voltage Range ^[4]	934V - 1500V
	Maximum DC Voltage	1500V
	Number of Inputs	Up to 40
	Max. DC Continuous Current (A) ^[5]	4590
	Max. DC Short Circuit Current (A) ^[5]	6940
	Number of Freemaq DC/DC ^[5]	Up to 4
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.8% including MV transformer
	Euroeta (η) (preliminary)	97.51% including MV transformer
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2
	Weight (lbs)	30865
	Weight (kg)	14000
	Type of Ventilation	Forced air cooling
ENVIROMENT	Degree of Protection	IP55
	Permissible Ambient Temperature ^[6]	-25°C to +60°C, >50°C / Active power derating
	Relative Humidity	4% to 100% non-condensing
	Max. Altitude (above sea level) ^[7]	2000m
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.	MV switchgear (2L+V)
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors
	Oversvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2 for DC side)
CERTIFICATIONS & STANDARDS	Safety	IEC 62477-2

NOTES

- [1] Values at 1.00-Vac nom and cosφ=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] Consult Power Electronics for derating curves.
- [5] Consult Power Electronics for Freemaq DC/DC connection configurations.
- [6] Consult Power Electronics for temperatures below -25°C.
- [7] Consult Power Electronics for altitudes above 1000m.

HEM

US

REFERENCES	FS4105M	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4105
	AC Output Power (kVA/kW) @50°C ^[1]	3810
	Operating Grid Voltage (kV) ^[2]	34.5kV ±10%
	Operating Grid Frequency (Hz)	60Hz
	Current Harmonic Distortion (THDi)	< 3% per IEEE519
DC	Power Factor (cosine phi) ^[3]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night
	DC Voltage Range ^[4]	913V - 1500V
	Maximum DC Voltage	1500V
	Number of Inputs	Up to 40
	Max. DC Continuous Current (A) ^[5]	4590
	Max. DC Short Circuit Current (A) ^[5]	6940
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.76% including MV transformer
	Euroeta (η) (preliminary)	97.50% including MV transformer
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2
	Weight (lbs)	30865
	Weight (kg)	14000
ENVIROMENT	Type of Ventilation	Forced air cooling
	Degree of Protection	NEMA 3R
	Permissible Ambient Temperature ^[6]	-25°C to +60°C, >50°C / Active power derating
	Relative Humidity	4% to 100% non-condensing
CONTROL INTERFACE	Max. Altitude (above sea level) ^[7]	2000m
	Communication Protocol	Modbus TCP
	Power Plant Controller	Optional
PROTECTIONS	Keyed ON/OFF Switch	Standard
	Ground Fault Protection	GFDI and isolation monitoring device
	Humidity Control	Active heating
	General AC Protection & Disconn.	MV switchgear (20 or 25 kA)
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors
CERTIFICATIONS & STANDARDS	Overvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2 for DC side)
	Safety	UL 1741 / CSA 22.2 No.107.1-16
	Installation	NEC 2020
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB

HEM

IEC

REFERENCES	FS4105MH	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4105
	AC Output Power (kVA/kW) @50°C ^[1]	3810
	Operating Grid Voltage (kV) ^[2]	34.5kV ±10%
	Operating Grid Frequency (Hz)	60Hz
	Current Harmonic Distortion (THDi)	< 3% per IEEE519
DC	Power Factor (cosine phi) ^[3]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night
	DC Voltage Range ^[4]	913V - 1500V
	Maximum DC Voltage	1500V
	Number of Inputs	Up to 40
	Max. DC Continuous Current (A) ^[5]	4590
	Max. DC Short Circuit Current (A) ^[5]	6940
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.76% including MV transformer
	Euroeta (η) (preliminary)	97.50% including MV transformer
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2
	Weight (lbs)	30865
	Weight (kg)	14000
ENVIROMENT	Type of Ventilation	Forced air cooling
	Degree of Protection	IP55
	Permissible Ambient Temperature ^[6]	-25°C to +60°C, >50°C / Active power derating
	Relative Humidity	4% to 100% non-condensing
CONTROL INTERFACE	Max. Altitude (above sea level) ^[7]	2000m
	Communication Protocol	Modbus TCP
	Power Plant Controller	Optional
PROTECTIONS	Keyed ON/OFF Switch	Standard
	Ground Fault Protection	GFDI and isolation monitoring device
	Humidity Control	Active heating
	General AC Protection & Disconn.	MV switchgear (2L+V)
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors
CERTIFICATIONS & STANDARDS	Overvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2 for DC side)
	Safety	IEC 62477-2

NOTES

- [1] Values at 1.00-Vac nom and cosφ=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] Consult Power Electronics for derating curves.
[5] Consult Power Electronics for Freemaq DC/DC connection configurations.
[6] Consult Power Electronics for temperatures below -25°C
[7] Consult Power Electronics for altitudes above 1000m.

NOTES

- [1] Values at 1.00-Vac nom and cosφ=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] Consult Power Electronics for derating curves.
[5] Consult Power Electronics for Freemaq DC/DC connection configurations.
[6] Consult Power Electronics for temperatures below -25°C.
[7] Consult Power Electronics for altitudes above 1000m.

HEM

US

REFERENCES	FS4010M	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4010
	AC Output Power (kVA/kW) @50°C ^[1]	3720
	Operating Grid Voltage (kV) ^[2]	34.5kV ±10%
	Operating Grid Frequency (Hz)	60Hz
	Current Harmonic Distortion (THDi)	< 3% per IEEE519
DC	Power Factor (cosine phi) ^[3]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night
	DC Voltage Range ^[4]	891V - 1500V
	Maximum DC Voltage	1500V
	Number of Inputs	Up to 40
	Max. DC Continuous Current (A) ^[5]	4590
	Max. DC Short Circuit Current (A) ^[5]	6940
EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.75% including MV transformer
	Euroeta (η) (preliminary)	97.48% including MV transformer
CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2
	Weight (lbs)	30865
	Weight (kg)	14000
	Type of Ventilation	Forced air cooling
ENVIROMENT	Degree of Protection	NEMA 3R
	Permissible Ambient Temperature ^[6]	-25°C to +60°C, >50°C / Active power derating
	Relative Humidity	4% to 100% non-condensing
	Max. Altitude (above sea level) ^[7]	2000m
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.	MV switchgear (20 or 25 kA)
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors
	Oversvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2 for DC side)
CERTIFICATIONS & STANDARDS	Safety	UL 1741 / CSA 22.2 No.107.1-16
	Installation	NEC 2020
	Utility Interconnect	IEEE 1547:2018 / UL 1741 SB

HEM

IEC

REFERENCES	FS4010MH	
AC	AC Output Power (kVA/kW) @40°C ^[1]	4010
	AC Output Power (kVA/kW) @50°C ^[1]	3720
	Operating Grid Voltage (kV) ^[2]	34.5kV ±10%
	Operating Grid Frequency (Hz)	60Hz
	Current Harmonic Distortion (THDi)	< 3% per IEEE519
DC	Power Factor (cosine phi) ^[3]	0.5 leading ... 0.5 lagging adjustable / Reactive power injection at night
	DC Voltage Range ^[4]	891V - 1500V
	Maximum DC Voltage	1500V
	Number of Inputs	Up to 40
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EFFICIENCY	Efficiency (Max) (η) (preliminary)	97.75% including MV transformer
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CABINET	Dimensions [WxDxH] (ft)	21.3 x 6.5 x 7.2
	Dimensions [WxDxH] (m)	6.5 x 2.0 x 2.2
	Weight (lbs)	30865
	Weight (kg)	14000
	Type of Ventilation	Forced air cooling
ENVIROMENT	Degree of Protection	IP55
	Permissible Ambient Temperature ^[6]	-25°C to +60°C, >50°C / Active power derating
	Relative Humidity	4% to 100% non-condensing
	Max. Altitude (above sea level) ^[7]	2000m
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.	MV switchgear (2L+V)
	General DC Protection & Disconn.	Fuses, DC switch-disconnectors
	Oversvoltage Protection	Type 2 protection for AC and DC (optionally, Type 1+2 for DC side)
CERTIFICATIONS & STANDARDS	Safety	IEC 62477-2

NOTES

- [1] Values at 1.00·Vac nom and cosφ=1.Consult PowerElectronics for derating curves.
- [2] Consult Power Electronics for other configurations.
- [3] Consult P-Q charts available: $Q(kVar)=\sqrt{(S(kVA))^2-P(kW)^2}$.
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- [1] Values at 1.00·Vac nom and cosφ=1.Consult Power Electronics for derating curves.
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- [3] Consult P-Q charts available: $Q(kVar)=\sqrt{(S(kVA))^2-P(kW)^2}$.
- [4] Consult Power Electronics for derating curves.
- [5] Consult Power Electronics for Freemaq DC/DC connection configurations.
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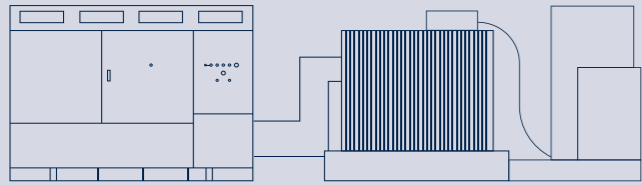
MEDIUM
VOLTAGGE **MV SKID**
TWIN SKID **STATIONS**

Page. 38 – 45

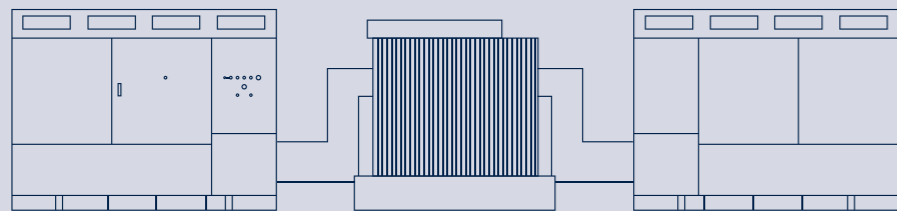
Combine the HEMK with our **MV stations.**
Utility scale solar stations.

MV Skid Compact & Twin Skid Compact

From low to medium voltage.



MV SKID COMPACT
Page. 40 – 41



TWIN SKID COMPACT
Page. 42 – 43

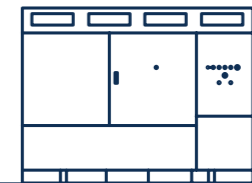
MV STATIONS



Turn-key solution

The SKID family facilitates the project design and **reduces the installation costs.**

The **fastest connection**
with any HEMK



Simplify your commissioning

All the medium voltage equipment is already integrated.

MV Skid Compact

Easy to transport anywhere.

From **6.6** kV to **34.5** kV
in the high voltage range

600V - 690V
in the low
voltage range

Choose the power
you need



Power outputs
from 1910 kVA
to 4390 kVA

Twin Skid Compact

For largest solar plants.
Extra high power density.

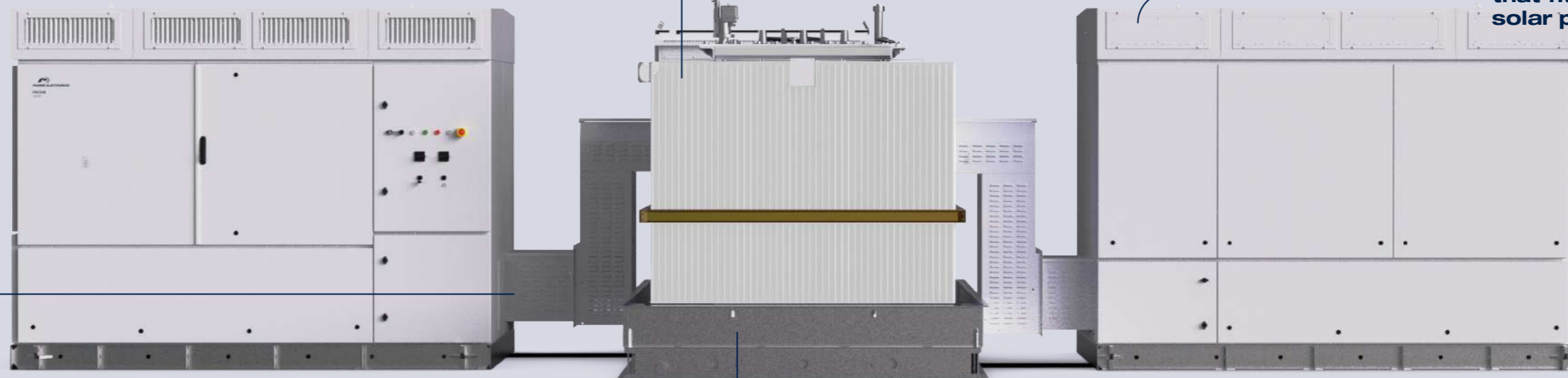
600 V - 690 V
in the low
voltage range

From

11 kV to 34.5 kV

in the high voltage range

Choose the distribution
that fits better on you
solar plant



Power outputs
from 3820 kVA
to 8780 kVA

MV Skid Compact

RATINGS	Power range @ 40 °C	1910 kVA - 4390 kVA
	Power range @ 50 °C	1775 kVA - 4075 kVA
	MV voltage range	6.6 kV / 11 kV / 13.2 kV / 13.8 kV / 15 kV / 20 kV / 22 kV / 23 kV / 25 kV / 30 kV / 33 kV / 34.5 kV
	LV voltage range	600 V / 615 V / 630 V / 645 V / 660 V / 690 V
	Transformer cooling	ONAN
	Transformer vector group	Dy11
MEDIUM VOLTAGE EQUIPMENT	Transformer protection	Protection relay for pressure, temperature (two levels) and gassing Monitoring of dielectric level decrease PT100 optional.
	Transformer index of protection	IP54
	Transformer losses	IEC standard or IEC Tier-2
	Oil retention tank	Galvanized steel. Integrated with hydrocarbon filter. Optional
	Switchgear configuration	Double feeder (2L)
	Switchgear protection	Circuit breaker (V)
	Switchgear short circuit rating ^[1]	16 kA 1 s
	Switchgear IAC ^[1]	A FLR 16 kA 1 s
	LV-MV connections	Close coupled solution (plug & play)
	LV protection	Motorized circuit breaker included in the inverter
CONNECTIONS	HV AC wiring	MV bridge between transformer and protection switchgear prewired
	Ambient temperature range ^[2]	-10 °C... +50 °C (T > 50 °C power derating)
	Maximum altitude (above sea level) ^[1]	Up to 1000 m
ENVIRONMENT	Relative humidity	4% to 95% non condensing
	User power supply options	5 kVA / 40 kVA at 400 V (3-phase), 50 / 60 Hz (Integrated in the inverter)
AUXILIARY SERVICES	User cabinet	Integrated in the inverter (by default). Optionally, LV cabinet in the skid.
	Cooling	Forced air
	HW communication	Ethernet (fiber optic or RJ45)
	UPS system ^[1]	1 kVA/0.8 kW (10 minutes). Optional
OTHER EQUIPMENT	Safety mechanism	Interlocking system
	Fire extinguishing system	Transformer oil tank retention accessory. Optional.
STANDARDS	Compliance	IEC 62271-212, IEC 62271-200, IEC 60076, IEC 61439-1

Twin Skid Compact

RATINGS	Power range @ 40 °C	3820 kVA - 8780 kVA
	Power range @ 50 °C	3550 kVA - 8150 kVA
	MV voltage range	11 kV / 13.2 kV / 13.8 kV / 15 kV / 20 kV / 22 kV / 23 kV / 25 kV / 30 kV / 33 kV / 34.5 kV
	LV voltage range	600 V / 615 V / 630 V / 645 V / 660 V / 690 V
	Transformer cooling	ONAN
	Transformer vector group	Dy11y11
MEDIUM VOLTAGE EQUIPMENT	Transformer protection	Protection relay for pressure, temperature (two levels) and gassing. Monitoring of dielectric level decrease. PT100 optional.
	Transformer index of protection	IP54
	Transformer losses	IEC standard or IEC Tier-2.
	Oil retention tank	Galvanized steel. Integrated with hydrocarbon filter. Optional
	Switchgear configuration	Double feeder (2L)
	Switchgear protection	Circuit breaker (V)
	Switchgear short circuit rating ^[1]	16 kA 1 s
	Switchgear IAC ^[1]	A FLR 16 kA 1 s
	LV-MV connections	Close coupled solution (plug & play)
	LV protection	Motorized circuit breaker included in the inverter
CONNECTIONS	HV AC wiring	MV bridge between transformer and protection switchgear prewired
	Ambient temperature range ^[2]	-10 °C... +50 °C (T > 50 °C power derating)
	Maximum altitude (above sea level) ^[1]	Up to 1000 m
ENVIRONMENT	Relative humidity	4% to 95% non condensing
	User power supply options	5 kVA / 40 kVA at 400 V (3-phase), 50 / 60 Hz (Integrated in the inverter)
AUXILIARY SERVICES	User cabinet	Integrated in the inverter (by default). Optionally, LV cabinet in the skid.
	Cooling	Forced air
	HW communication	Ethernet (fiber optic or RJ45)
	UPS system ^[1]	1 kVA/0.8 kW (10 minutes). Optional
OTHER EQUIPMENT	Safety mechanism	Interlocking system
	Fire extinguishing system	Transformer oil tank retention accessory. Optional.
STANDARDS	Compliance	IEC 62271-212, IEC 62271-200, IEC 60076, IEC 61439-1

NOTES

- [1] Consult with Power Electronics for other options.
[2] For lower temperatures, consult with Power Electronics.

NOTES

- [1] Consult with Power Electronics for other options.
[2] For lower temperatures, consult with Power Electronics.

Page. 48 – 49

PPC PRO

Page. 51-52

EMS

**EVERYTHING
IN VIEW**

**ADVANCED
CONTROL
SOLUTIONS**

PPC PRO

The Power Plant Controller is the interface between the grid operator and the inverters, **designed to meet the most demanding grid connection requirements.**

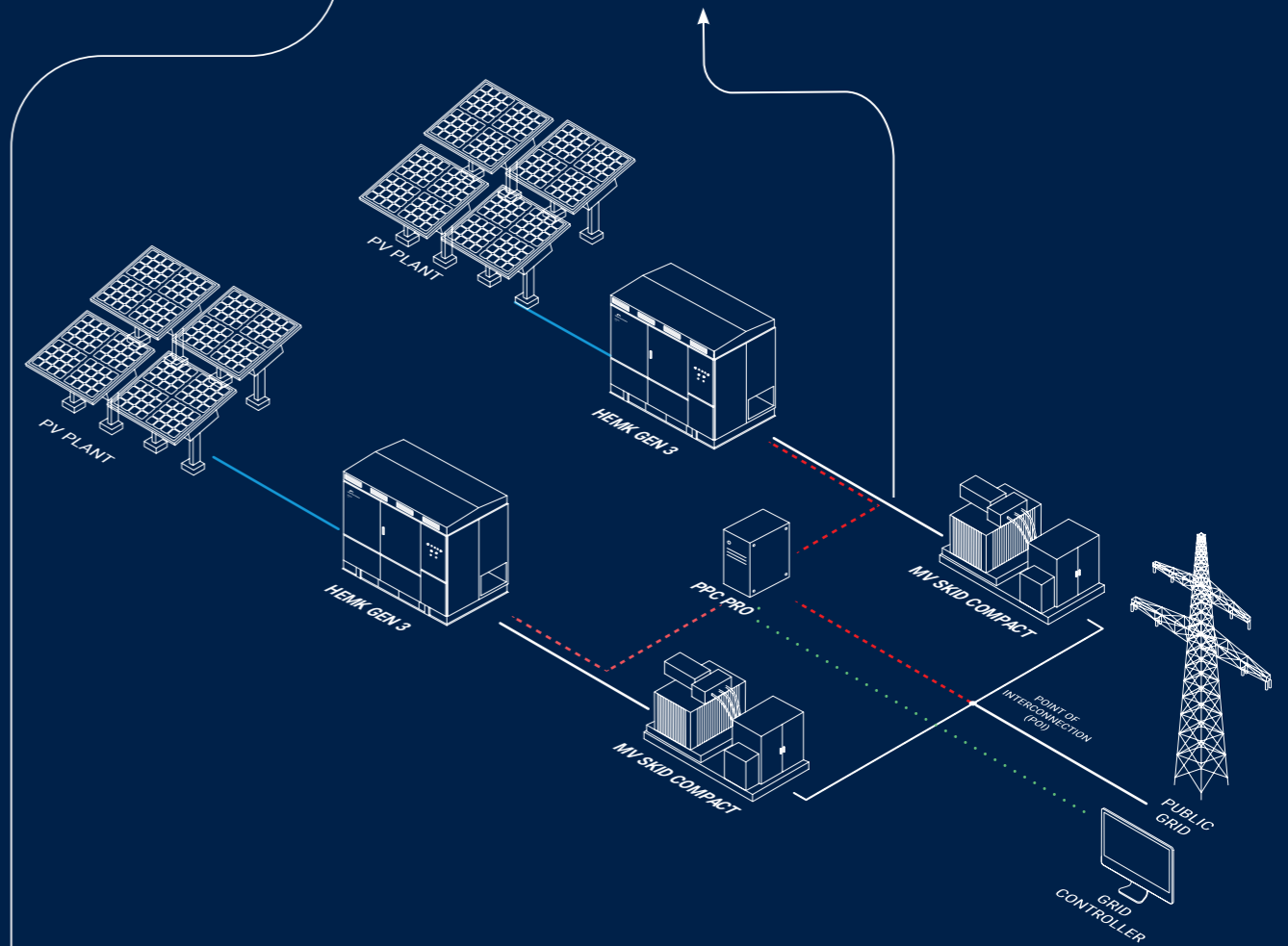
Regardless of where you are.



The governor

Smart Q distribution

This algorithm allows to distribute the reactive power between the inverters depending on the available active power, **maximizing the energy production.**



O&M diagnosis functions

Reports warning / fault messages and enables user management...

Common Technical Characteristics

GENERAL DATA	Material	Polycarbonate
	Assembly	Wall or struture mounted
	Flammability	Halogen-free, self-extinguishing enclosure material (UL94-5V).
	Power Supply	48 W [220/240 Vac (IEC) - 110/125 Vac (UL)]
	Compatible inverters	HEM, HEMK, Freemaq Statcom
COMMUNICATIONS	Communication protocols	Modbus TCP. Consult with Power Electronics for other options
	Fiber optic switch	To connect with the utility / SCADA system and inverters
ENVIRONMENTAL CONDITIONS	Temperature range	From -20 to +50 C.
	Humidity	From 15 to 95 % (0 to 95 % non-condensing).
	Protection degree	IP54 / NEMA 3
	Pollution degree	Type II
	Maximum altitude	4000 m
CERTIFICATIONS	Marking	CE
FUNCTIONALITIES ¹	Active power control	Active power control, frequency response (with /without reserve), ramp rate.
	Reactive power control	Reactive power control, power factor control, voltage control, Q(V)curve, cosphi(P) curve, ramp rate, statcom control,capacitor bank control, negative and positive active power setpoints
	Diagnosis functions	Warning / fault messages, user management, real-time data monitoring, change log.
	Others	Internal measurement, compatibility with power analyzers, SQL data base. Consult Power Electronics for other functionalities
OTHERS	Web server	For local and remote monitoring / control.
	Customizable solution	Flexible solution based on a powerful modular and programmable

EMS

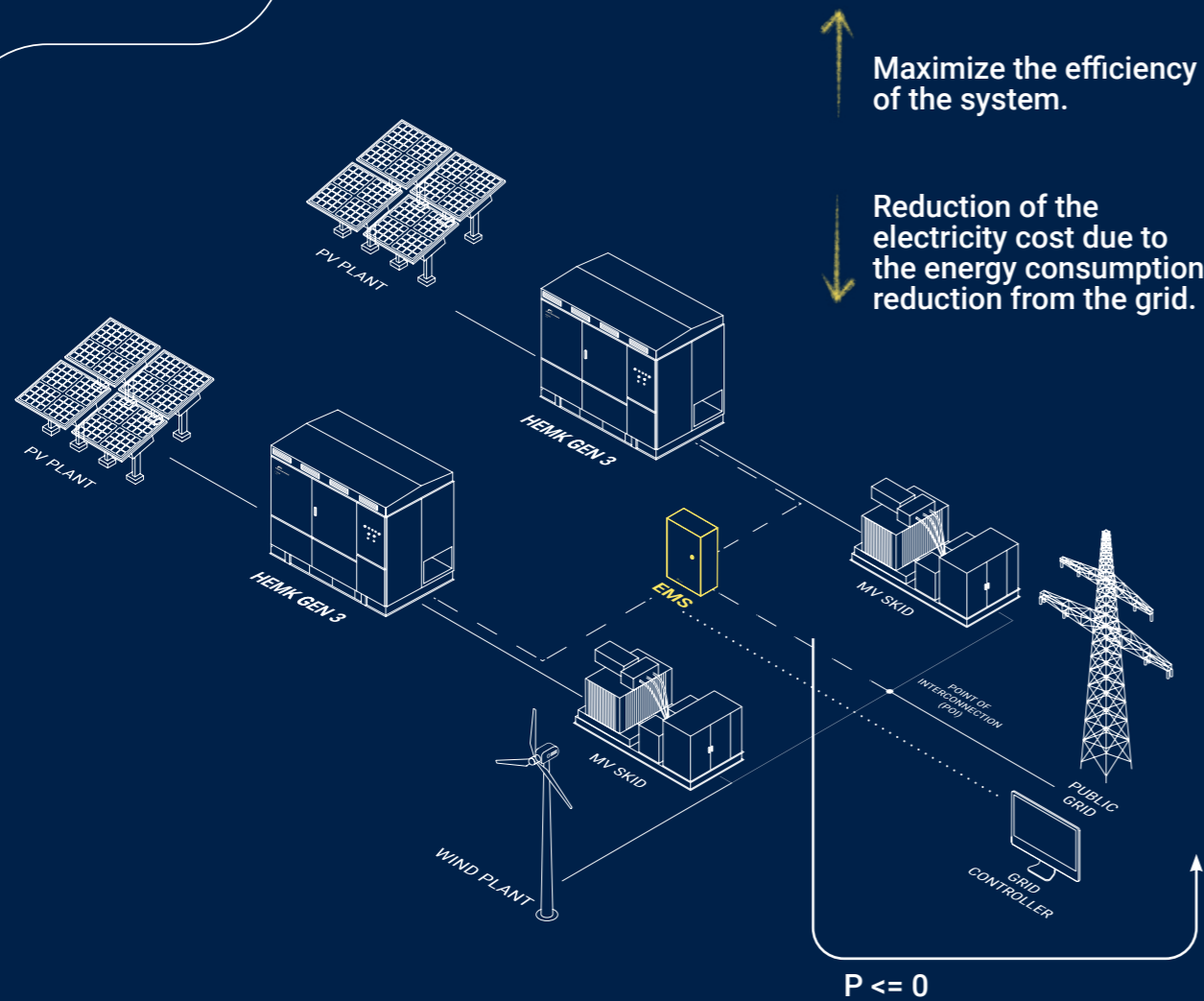
Designed to match energy production and consumption



Monitor, control and optimize the energy performance.

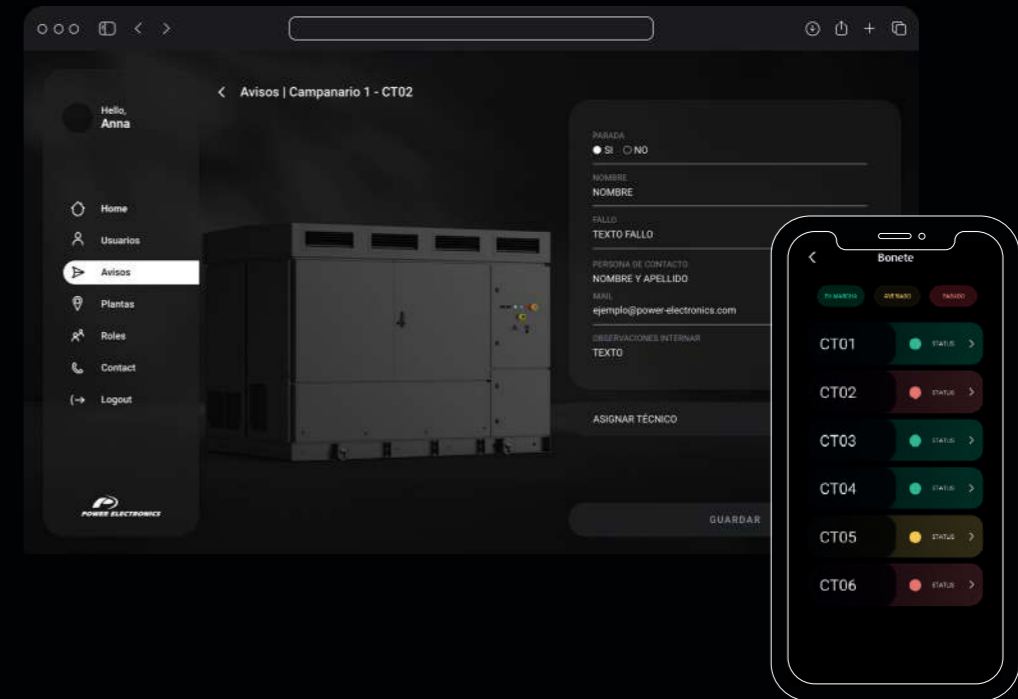
The energy management system.

● Is the best solution for self-consumption applications such as zero grid injection systems.



ONPOWER SUPPORT

BY POWER ELECTRONICS

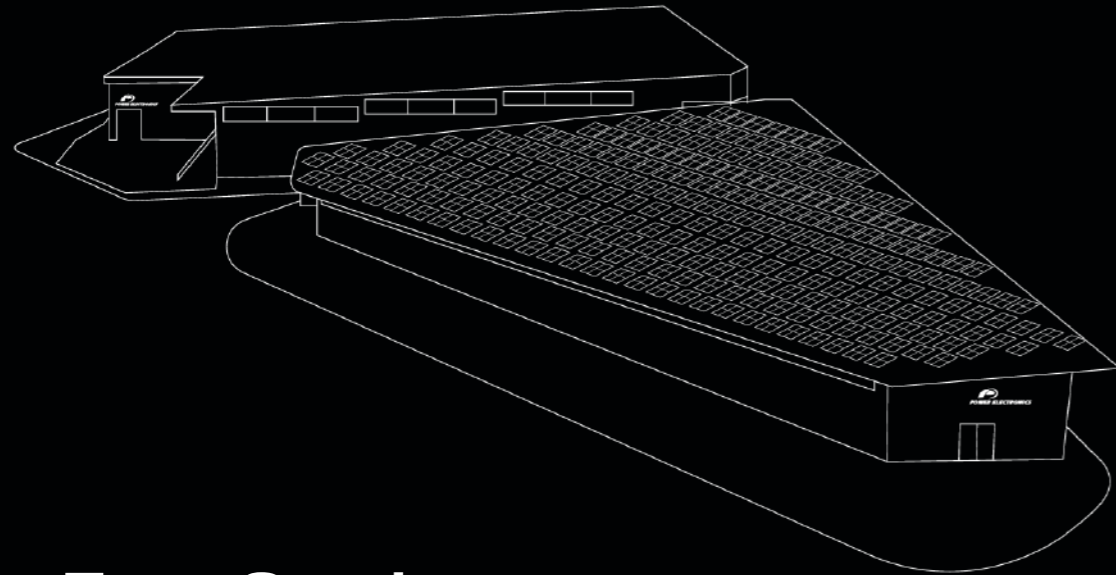
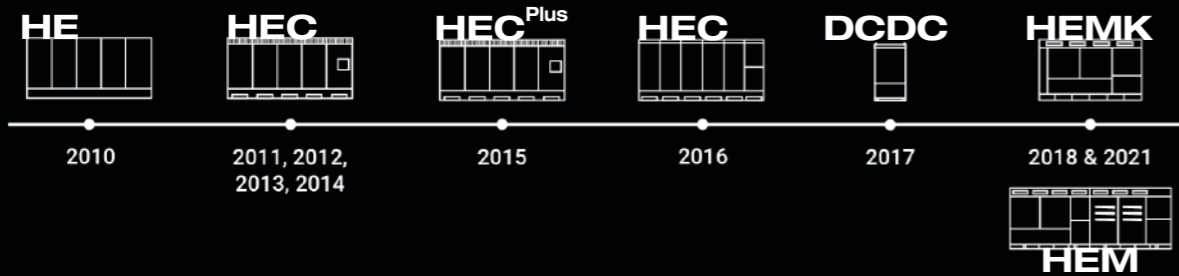


Our secret

The key of our success for more than 35 years, our 24/7 after sales service, Power On Support.

We take care of the legacy generations

Each new generation of inverters involves adapting the manufacturing lines to optimize the production of these new devices. Power Electronics has optimized facilities for the production of limited units from previous generations, where we manufacture current subcomponents adapted to equipment that is no longer in production, but which allows for an extended life.



Long Term Service

We repair subcomponents or even manufacture equivalent units in our Dedicated Service Factory located near our Production Plant

Power Electronics has experience in repowering old photovoltaic plants, where we supply state-of-the-art equipment adapting its electrical characteristics to be compatible with the existing configuration, while providing all the advantages of the latest generation inverters.

OUR SECRET
We are here to help you



Scan me!

Vertical Integration

throughout the entire process

We complement your spare parts strategy with our own thanks to our Dedicated Service Factory warehouse, informing you when any of them is going to be discontinued so you can plan accordingly.

Before commissioning

- Technical applications & design requirement review
- Dedicated Project Management Support
- Hands on functional & safety product training

During commissioning

- Dedicated commissioning teams
- Rigorous execution on through site operation

After commissioning

- Support 24/7, 365 days a year.
- Full warranty coverage with options for extension and full preventative maintenance packages
- Advanced offerings for remote monitoring, detailed performance reporting, and interactive portals for tracking metrics direct with the PE Service Org

You have the control

WARRANTY

Power Electronics (the Seller) warrants that their products solar inverters are free of faults and defects for a period of 5 years, valid from the date of delivery to the Buyer. It shall be understood that a product is free of faults and defects when its condition and performance is in compliance with its specification.

The warranty shall not extend to any Products whose defects are due to (i) careless or improper use, (ii) failure to observe the Seller's instructions regarding the transport, installation, functioning, maintenance and the storage of the Products, (iii) repairs or modifications made by the Buyer or third party without prior written authorization of the Seller, (iv) negligence during the implementation of authorized repairs or modifications, (v) if serial numbers are modified or illegible, (vi) anomalies caused by, or connected to, the elements coupled directly by the Buyer or by the final customer, (vii) accidents or events that place the Product outside its storage and operational specification, (viii) continued use of the Products after identification of a fault or defect.

The warranty excludes components that must be replaced periodically such as Fuses + DC switch, lamps & air filters or consumable materials subject to normal wear and tear.

The warranty excludes external parts that are not manufactured by the Seller under the brand of Power Electronics.

The Seller undertakes to replace or to repair, himself, at their discretion, any Product or its part that demonstrates a fault or defect, which is in conformance with the aforementioned terms of the warranty.

Reasonable costs associated with the disassembly/ assembly, transport and customs of equipment will also be undertaken by the Seller except in cases of approved intervention by the Buyer and/or their representative where cost allocation has been previously agreed.



HEADQUARTERS

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Lliria - Valencia - Spain
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