



X8 Series

Conversion systems adapted to your projects

Datasheet







PHOTOVOLTAIC



BESS



FUEL CELL

X8 series > Great power density in minimum space

The X8 family is capable of actually handling its rated power at 1500 Vdc. The converter is fully configurable to work as a PV inverter, BESS converter and hydrogen cell rectifier.

The new multilevel topology not only allows full power operation over the entire DC voltage range, but also provides greater density and performance in high-altitude installations.

High performance

- UP TO **4,7 MVA** @ 710 V
- FULL POWER OPERATION @ **1500 V**
- OPERATION TEMPERATURE **-20°C TO 65°C**
- **-30°C** KIT OPTION
- **4H SYSTEM** CONFIGURATION FOR **BESS**

Grid support functionalities

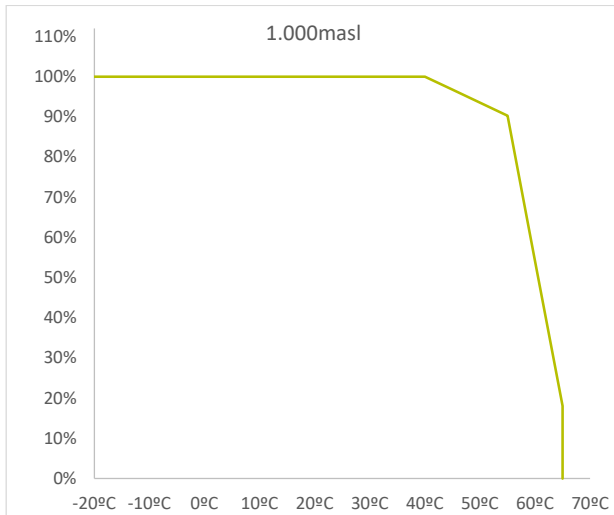
- Reactive power control and Q-at-night function
- Black Start capability
- Grid- Feeding operation capability
- Grid-Forming operation capability

Maintenance

- Easy maintenance of cooling system
- Wide space for DC wiring installation
- Easy removal of power modules and main elements
- Dedicated monitoring and diagnostic tools
- HMI Screen



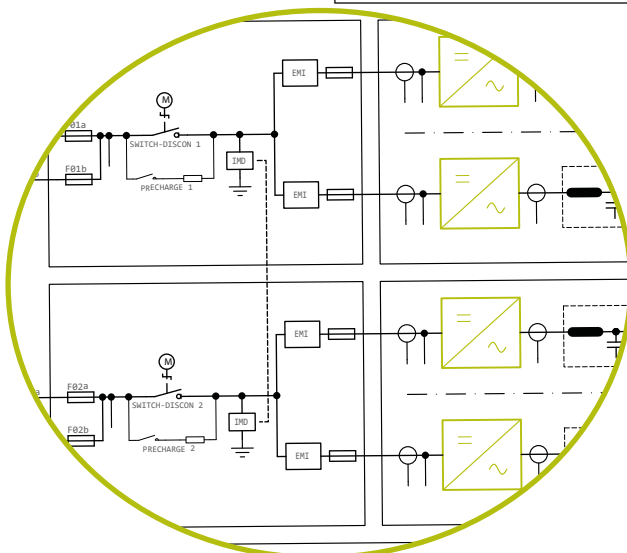
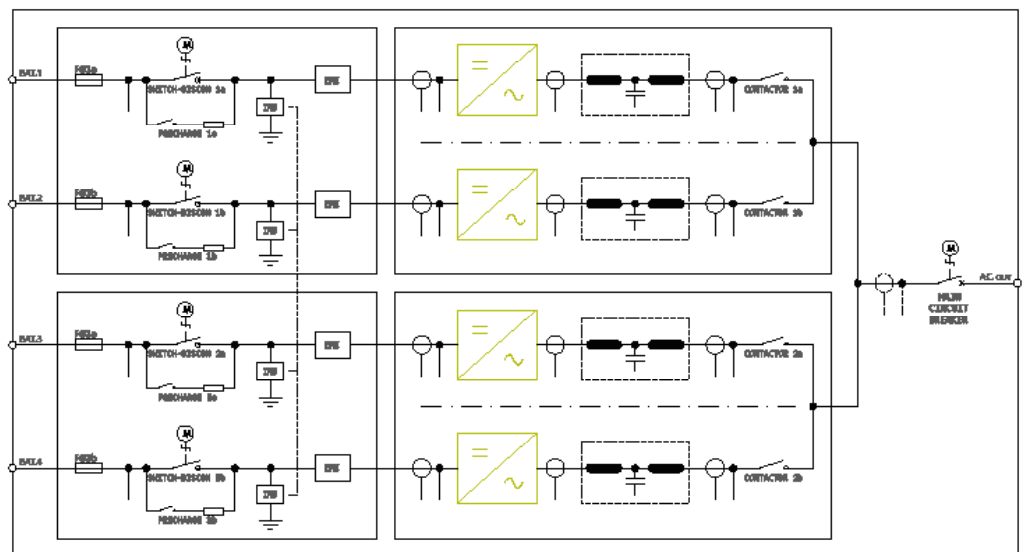
Derating curve



- Nominal power up to 40°C
- 90% of rated power up to 55°C
- Operation up to 65°C
- IP55 protection

X8 BESS converter - Electric diagram

4 hours solution



2 hours solution

INPUT DATA									
Vmppt.min (Vac=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
Vmppt.min (Vac=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vmppt.min (Vac=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	4300 A, 2150 A each DC switch								
Maximum Current 40°C	4700 A, 2350 A each DC switch								
Insulation Fault Detection System	YES (IMD, GFDI)								
Input number	24 fuse protected (+/- or only +)								

OUTPUT DATA									
Maximum Output Power (S/P55°C) ⁽¹⁾	3.334 kVA	3.546 kVA	3.698 kVA	3.759 kVA	3.819 kVA	3.940 kVA	4.062 kVA	4.183 kVA	4.304 kVA
Maximum Output Power (S/P40°C) ⁽¹⁾	3.694 kVA	3.929 kVA	4.097 kVA	4.164 kVA	4.232 kVA	4.366 kVA	4.500 kVA	4.635 kVA	4.769 kVA
Nominal Voltage (3F +10%, -10%)	550 V	585 V	610 V	620 V	630 V	650 V	670 V	690 V	710 V
Maximum Operation Current (55°C)	3.500 A								
Maximum Operation Current (40°C)	3.878 A								
Frequency	50/60Hz								
Power Factor	1 (Adjustable 0-1 leading/lagging, Q at Night optional)								
Output THD	< 3% at nominal power								
Maximum Efficiency*	98,8%	98,9%	98,9%	98,9%	98,9%	98,9%	99,0%	99,0%	99,0%
EUR Efficiency*	98,5%	98,5%	98,6%	98,6%	98,6%	98,6%	98,6%	98,6%	98,6%
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.350 x 2.900 x 1.850 mm*
Weight	4.500 kg*
Altitude	1000 masl ⁽³⁾
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	7000 W*
Auxiliary power consumption at night	250 W*

(1) Vac Nominal;

(2) Derating from 55°C to 65°C/Consult under -20°C;

(3) consult for different altitudes;

(*) preliminary

INPUT DATA									
Vmppt.min (Vac=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
Vmppt.min (Vac=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vmppt.min (Vac=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current55°C	2150 A								
Maximum Current40°C	2350 A								
Insulation Fault Detection System	YES (IMD, GFDI)								
Input number	12 fuse protected (+/- or only +)								

OUTPUT DATA									
Maximum Output Power (S/P55°C)(1)	1.667 kVA	1.773 kVA	1.849 kVA	1.879 kVA	1.910 kVA	1.970 kVA	2.031 kVA	2.091 kVA	2.152 kVA
Maximum Output Power (S/P40°C)(1)	1.847 kVA	1.965 kVA	2.049 kVA	2.082 kVA	2.116 kVA	2.183 kVA	2.250 kVA	2.317 kVA	2.384 kVA
Nominal Voltage (3F +10%, -10%)	550 V	585 V	610 V	620 V	630 V	650 V	670 V	690 V	710 V
Maximum Operation Current (55°C)	1.750 A								
Maximum Operation Current (40°C)	1.939 A								
Frequency	50/60Hz								
Power Factor	1 (Adjustable 0-1 leading/lagging. Q at Night optional)								
Output THD	< 3% at nominal power								
Maximum Efficiency*	98,8%	98,9%	98,9%	98,9%	98,9%	98,9%	99,0%	99,0%	99,0%
EUR Efficiency*	98,5%	98,5%	98,6%	98,6%	98,6%	98,6%	98,6%	98,6%	98,6%
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.350 x 2.900 x 900 mm*
Weight	3.000 kg*
Altitude	1000 masl ⁽³⁾
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	5000 W*
Auxiliary power consumption at night	200 W*

(1) Vac Nominal;

(2) Derating from 55°C to 65°C/Consult under -20°C;

(3) consult for different altitudes;

(*) preliminary

INPUT DATA									
Vdc.min (V=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
Vdc.min (V=1,10pu & PF=1,00)	871 V	925 V	964 V	979 V	995 V	1.026 V	1.057 V	1.088 V	1.120 V
Vdc.min (V=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vdc.min (V=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc.máx full power	1.238 V	1.316 V	1.373 V	1.395 V	1.418 V	1.463 V	1.500 V	1.500 V	1.500 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	4300 A, 2150 A each DC switch/BMS								
Maximum Current 40°C	4700 A, 2350 A each DC switch/BMS								
Insulation Fault Detection System	YES (IMD)								
Battery Short Circuit Current ⁽⁴⁾	200 kA* each individual input								
Input number	2 or 4 inputs, fuse protected (1 each BMS/DC switch)								

OUTPUT DATA									
Maximum Output Power (S/P55°C) ⁽¹⁾	3.334 kVA	3.546 kVA	3.698 kVA	3.759 kVA	3.819 kVA	3.940 kVA	4.062 kVA	4.183 kVA	4.304 kVA
Maximum Output Power (S/P40°C) ⁽¹⁾	3.694 kVA	3.929 kVA	4.097 kVA	4.164 kVA	4.232 kVA	4.366 kVA	4.500 kVA	4.635 kVA	4.769 kVA
Nominal Voltage (3F +10%, -10%)	550 V	585 V	610 V	620 V	630 V	650 V	670 V	690 V	710 V
Maximum Operation Current (55°C)	3.500 A								
Maximum Operation Current (40°C)	3.878 A								
Maximum Transient Current (5min)	4.200 A								
Maximum Transient Current (30seg)	5.000 A								
Frequency	50/60Hz								
Power Factor	Adjustable (-1) - 0 - 1 leading/lagging, Q at Night optional								
Output THD	< 3% at nominal power								
Maximum Efficiency (Vdc.min)*	98,8%	98,8%	98,8%	98,9%	98,9%	98,9%	98,9%	98,9%	99,0%
Maximum Efficiency (Vdc.max)*	98,1%	98,2%	98,2%	98,3%	98,3%	98,3%	98,4%	98,4%	98,4%
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.400 x 2.900 x 1.850 mm*
Weight	4.500 kg*
Altitude	1000 m.a.s.l. ⁽³⁾
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	7000 W*
Auxiliary power consumption at night	250 W*

(1) Vac Nominal;

(2) Derating from 55°C to 65°C/Consult under -20°C;

(3) consult for different altitudes;

(4) more kA with fuses study;

(*) preliminary

INPUT DATA									
Vdc.min (V=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
Vdc.min (V=1,10pu & PF=1,00)	871 V	925 V	964 V	979 V	995 V	1.026 V	1.057 V	1.088 V	1.120 V
Vdc.min (V=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vdc.min (V=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc.máx full power	1.238 V	1.316 V	1.373 V	1.395 V	1.418 V	1.463 V	1.500 V	1.500 V	1.500 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	2150A								
Maximum Current 40°C	2350A								
Insulation Fault Detection System	YES (IMD)								
Battery Short Circuit Current ⁽⁴⁾	200 kA* each individual input								
Input number	Up to 2 inputs, fuse protected								

OUTPUT DATA									
Maximum Output Power (S/P55°C) ⁽¹⁾	1.667 kVA	1.773 kVA	1.849 kVA	1.879 kVA	1.910 kVA	1.970 kVA	2.031 kVA	2.091 kVA	2.152 kVA
Maximum Output Power (S/P40°C) ⁽¹⁾	1.847 kVA	1.965 kVA	2.049 kVA	2.082 kVA	2.116 kVA	2.183 kVA	2.250 kVA	2.317 kVA	2.384 kVA
Nominal Voltage (3F +10%, -10%)	550 V	585 V	610 V	620 V	630 V	650 V	670 V	690 V	710 V
Maximum Operation Current (55°C)	1.750 A								
Maximum Operation Current (40°C)	1.939 A								
Maximum Transient Current (5min)	2.100 A								
Maximum Transient Current (30 seg)	2.500 A								
Frequency	50/60Hz								
Power Factor	Adjustable (-1) - 0 - 1 leading/lagging. Q at Night optional								
Output THD	< 3% at nominal power								
Maximum Efficiency (Vdc.min)*	98,8%	98,8%	98,8%	98,9%	98,9%	98,9%	98,9%	98,9%	99,0%
Maximum Efficiency (Vdc.max)*	98,1%	98,2%	98,2%	98,3%	98,3%	98,3%	98,4%	98,4%	98,4%
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.350 x 2.900 x 900 mm*
Weight	3.000 kg*
Altitude	1000 m.a.s.l. ⁽³⁾
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	5000 W*
Auxiliary power consumption at night	200 W*

(1) Vac Nominal;

(2) Derating from 55°C to 65°C/Consult under -20°C;

(3) consult for different altitudes;

(4) more kA with fuses study;

(*) preliminary

X8 series >

UP TO 9,4 MVA S



SKID SOLUTION



INPUT DATA									
Vdc.min (V=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
Vdc.min (V=1,10pu & PF=1,00)	871 V	925 V	964 V	979 V	995 V	1.026 V	1.057 V	1.088 V	1.120 V
Vdc.min (V=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vdc.min (V=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc. max full power	1.238 V	1.316 V	1.373 V	1.395 V	1.418 V	1.463 V	1.500 V	1.500 V	1.500 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	4300A, 2150A each DC switch/BMS								
Maximum Current 40°C	4700A, 2350A each DC switch/BMS								
Insulation Fault Detection System	YES (IMD)								
Battery Short Circuit Current ⁽⁴⁾	200 kA* each individual input								
Input number	2 or 4 inputs fuse protected (1 each BMS/DC switch)								

OUTPUT DATA									
Maximum Output Power (S/P55°C)(1)	3.334 kVA	3.546 kVA	3.698 kVA	3.759 kVA	3.819 kVA	3.940 kVA	4.062 kVA	4.183 kVA	4.304 kVA
Maximum Output Power (S/P40°C)(1)	3.694 kVA	3.929 kVA	4.097 kVA	4.164 kVA	4.232 kVA	4.366 kVA	4.500 kVA	4.635 kVA	4.769 kVA
Nominal Voltage (3F +10%, -10%)	550 V	585 V	610 V	620 V	630 V	650 V	670 V	690 V	710 V
Maximum Operation Current (55°C)	3.500 A								
Maximum Operation Current (40°C)	3.878 A								
Frequency	50/60Hz								
Power Factor	Adjustable (-1) - 0 - 1 leading/lagging. Q at Night optional								
Output THD	< 3% at nominal power								
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

MV COMPONENTS	
Set up transformer	Dy11y11 KNAN/ONAN
Switchgear	0L1V / 1L1V / 2L1V up to 38 kV 630A, other options upon demand
Custom Cabinet	Upon demande with Auxiliary Transformer and SCADA communication board integration

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.600 x 8.400 x 2.100 mm*
Weight	15 Tn*
Altitude	1000 masl (3)
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	7000 W*
Auxiliary power consumption at night	250 W*

(1) Vac Nominal; (2) derating from 55°C to 65°C/Consult under -20°C; (3) Consult for different altitudes; (4) more kA with fuses study; (*) preliminary

INPUT DATA									
Vdc.min (V=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
Vdc.min (V=1,10pu & PF=1,00)	871 V	925 V	964 V	979 V	995 V	1.026 V	1.057 V	1.088 V	1.120 V
Vdc.min (V=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vmppt.min (V=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc. max full power	1.238 V	1.316 V	1.373 V	1.395 V	1.418 V	1.463 V	1.500 V	1.500 V	1.500 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	2150A								
Maximum Current 40°C	2350A								
Insulation Fault Detection System	YES (IMD)								
Battery Short Circuit Current ⁽⁴⁾	200 kA* each individual input								
Input number	Up to 2 fuse protected (1 each BMS/DC switch)								

OUTPUT DATA									
Maximum Output Power (S/P55°C)(1)	1.667 kVA	1.773 kVA	1.849 kVA	1.879 kVA	1.910 kVA	1.970 kVA	2.031 kVA	2.091 kVA	2.152 kVA
Maximum Output Power (S/P40°C)(1)	1.847 kVA	1.965 kVA	2.049 kVA	2.082 kVA	2.116 kVA	2.183 kVA	2.250 kVA	2.317 kVA	2.384 kVA
Nominal Voltage (3F +10%, -10%)	550 V	585 V	610 V	620 V	630 V	650 V	670 V	690 V	710 V
Maximum Operation Current (55°C)	1.750 A								
Maximum Operation Current (40°C)	1.939 A								
Frequency	50/60Hz								
Power Factor	Adjustable (-1) - 0 - 1 leading/lagging. Q at Night optional								
Output THD	< 3% at nominal power								
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

MV COMPONENTS	
Set up transformer	Dy11y11 KNAN/ONAN
Switchgear	0L1V / 1L1V / 2L1V up to 38 kV 630A, other options upon demand
Custom Cabinet	Upon demande with Auxiliary Transformer and SCADA communication board integration

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.600 x 8.400 x 2.100 mm*
Weight	13 Tn*
Altitude	1000 masl ⁽³⁾
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	7000 W*
Auxiliary power consumption at night	250 W*

(1) Vac Nominal; (2) Derating from 55°C to 65°C/Consult under -20°C; (3) Consult for different altitudes; (4) more kA with fuses study; (*) preliminary

INPUT DATA									
Vdc.min (V=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
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Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	2 x 4300A, 2150A each DC switch/BMS								
Maximum Current 40°C	2 x 4700A, 2350A each DC switch/BMS								
Insulation Fault Detection System	YES (IMD)								
Battery Short Circuit Current ⁽⁴⁾	200 kA* each individual input								
Input number	2 times 2 or 4 fuse protected (1 each BMS/DC switch)								

OUTPUT DATA									
Maximum Output Power (S/P55°C)(1)	6.668 kVA	7.092 kVA	7.396 kVA	7.518kVA	7.638 kVA	7.880 kVA	8.124 kVA	8.366 kVA	8.608 kVA
Maximum Output Power (S/P40°C)(1)	7.388 kVA	7.858 kVA	8.194 kVA	8.328 kVA	8.464 kVA	8.732 kVA	9.000 kVA	9.270 kVA	9.538 kVA
Nominal Voltage (3F +10%, -10%)	2x550 V	2x585 V	2x610 V	2x620 V	2x630 V	2x650 V	2x670 V	2x690 V	2x710 V
Maximum Operation Current (55°C)	2x3.500 A								
Maximum Operation Current (40°C)	2x3.878 A								
Frequency	50/60Hz								
Power Factor	Adjustable (-1) - 0 - 1 leading/lagging. Q at Night optional								
Output THD	< 3% at nominal power								
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

MV COMPONENTS	
Set up transformer	Dy11y11 KNAN/ONAN
Switchgear	0L1V / 1L1V / 2L1V up to 38 kV 630A, other options upon demand
Custom Cabinet	Upon demande with Auxiliary Transformer and SCADA communication board integration

GENERAL DATA	
Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.600 x 11.800 x 2.100 mm*
Weight	27,5 Tn*
Altitude	1000 masl (3)
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	7000 W*
Auxiliary power consumption at night	250 W*

(1) Vac Nominal; (2) derating from 55°C to 65°C/Consult under -20°C; (3) Consult for different altitudes; (4) more kA with fuses study; (*) preliminary

INPUT DATA									
Vdc.min (V=1,00pu & PF=1,00)	793 V	842 V	878 V	892 V	906 V	934 V	963 V	991 V	1.019 V
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Vdc.min (V=1,10pu & PF=0,90) & 60Hz	895 V	950 V	989 V	1.004 V	1.020 V	1.051 V	1.082 V	1.113 V	1.144 V
Vmppt.min (V=1,10pu & PF=0,00) & 60Hz	927 V	981 V	1.020 V	1.036 V	1.051 V	1.083 V	1.114 V	1.145 V	1.176 V
Vdc. max full power	1.238 V	1.316 V	1.373 V	1.395 V	1.418 V	1.463 V	1.500 V	1.500 V	1.500 V
Vdc.máx absolute	1.414 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V	1.500 V
Maximum Current 55°C	2 times 2150A								
Maximum Current 40°C	2 times 2350A								
Insulation Fault Detection System	YES (IMD)								
Battery Short Circuit Current ⁽⁴⁾	200 kA*each individual input								
Input number	2 times 1 or 2 fuse protected (1 each BMS/DC switch)								

OUTPUT DATA									
Maximum Output Power (S/P55°C)(1)	3.334 kVA	3.546 kVA	3.698 kVA	3.758 kVA	3.820 kVA	3.940 kVA	4.062 kVA	4.182 kVA	4.304 kVA
Maximum Output Power (S/P40°C)(1)	3.694 kVA	3.930 kVA	4.098 kVA	4.164 kVA	4.232 kVA	4.366 kVA	4.500 kVA	4.634 kVA	4.768 kVA
Nominal Voltage (3F +10%, -10%)	2x550 V	2x585 V	2x610 V	2x620 V	2x630 V	2x650 V	2x670 V	2x690 V	2x710 V
Maximum Operation Current (55°C)	2x1.750 A								
Maximum Operation Current (40°C)	2x1.939 A								
Frequency	50/60Hz								
Power Factor	Adjustable (-1) - 0 - 1 leading/lagging. Q at Night optional								
Output THD	< 3% at nominal power								
Control Structure	Control Logic and DSP, SVM Technology								
Communications	ETHERNET / MODBUS TCP / IP (Optional: RS-485 communications port)								

MV COMPONENTS

Set up transformer	Dy11y11 KNAN/ONAN
Switchgear	0L1V / 1L1V / 2L1V up to 38 kV 630A, other options upon demand
Custom Cabinet	Upon demande with Auxiliary Transfor- mer and SCADA communication board integration

GENERAL DATA

Operating Temperature	- 20°C... + 65°C ⁽²⁾
Relative Humidity	0%-100%
Dimensions (h x w x d)	2.600 x 11.800 x 2.100 mm*
Weight	23 Tn*
Altitude	1000 masl (3)
Ingress Protection (IP)	IP55
Auxiliary power consumption (max)	7000 W*
Auxiliary power consumption at night	250 W*

(1) Vac Nominal; (2) derating from 55°C to 65°C/Consult under -20°C; (3) Consult for different altitudes; (4) more kA with fuses study; (*) preliminary



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