



VACON® 8000 SOLAR MV STATION

VACON 8000 SOLAR MV Station ensures that, when converting sun energy into electrical power, environmental factors don't stop you from getting the best results possible. VACON 8000 SOLAR Inverters require shelter from the elements in order to perform. By choosing VACON 8000 SOLAR MV Station, you receive everything you need to convert solar energy into electricity, all in one convenient turnkey package.

PROTECTION FROM THE ELEMENTS

In order to set up a solar farm that is to have a major impact on the grid, it has to have two things – sunlight and space. This often means that solar farms are positioned in places where there is a lack of buildings to store the inverters. That's where VACON 8000 SOLAR MV Station can help. Designed to act as a comprehensive turnkey solution, it utilizes the functionality and electrical performance of VACON Multimaster technology to offer maximum efficiency at all times.

WE WILL TAKE CARE OF EVERYTHING

VACON 8000 SOLAR MV Station is designed with the customer in mind. As well as offering environmental protection to your VACON 8000 SOLAR inverters, you'll also reap rewards from how easy it is to use. Instead of having to commission a complex infrastructure to house your solar farm, just contact Vacon and we'll do the rest. VACON 8000 SOLAR MV Station comes with power ranging from 400 kW to 1200 kW that can be tailored around your needs. We can even build the enclosure to your requirements – where you want it to blend subtly into the surrounding environment or painted bright pink, we'll deliver it just how you want.

TECHNICAL DATA

VACON 8000 SOLAR	Maximum PV power kW	Max. PV current ISC A	Max no. of DC inputs (1 MPPT)	Nominal power kW	Max. efficiency %		Inverter dimensions WxHxD mm	Inverter weight kg
400MV	480	1226	20	400	98.6	98,0	6700X3100X2800	30000
600MV	720	1839	20	600	98.6	98.2	6700X3100X2800	30000
800MV	960	2452	32	800	98.6	98,2	7800X3100X2800	36000
1000MV	1200	3065	32	1000	98.6	98,2	7800X3100X2800	36000
1200MV	1440	3678	32	1200	98.6	98,2	7800X3100X2800	36000

INPUT

MPPT voltage range	410-800 VDC
Max. input voltage	900 VDC

OUTPUT

Nominal voltage	20 kV (other voltages at request)
Output frequency	50 / 60 Hz
Power factor	Adjustable 0,8-1 inductive/capacitive
AC current harmonics	<3%

AMBIENT

IP class	IP54
Temperature range	-10 to 40 °C
Temperature derating	1,5% / 1 °C up to 50 °C
Relative humidity	15% to 95%, condensation not allowed
Maximum installation altitude	2000 m

AUXILIARY POWER

External auxiliary power supply	1 ph, 230 VAC, 50 / 60 Hz, 10 A
Auxiliary power fuse	25 A

SAFETY / PROTECTION

Ground fault monitoring	Yes
Overload behavior	Power limiting
Over temperature behavior	Power limiting
Circuit breaker AC side	Yes
Circuit breaker DC side	Yes

MEDIUM VOLTAGE

Medium voltage transformer	Dry type
Transformer over temperature protection	Yes
Transformer over load protection	Switchgear with fuses
Medium voltage output connection	Ring connection, two switchgears

OPTIONS

Internal auxiliary power supply	Optional
Medium voltage output connection	Star connection
Monitoring system	Monitoring through web portal, SMS messages, e-mail messages

For certifications, see page 7

FEATURES

- Power range of 400 kW to 1200 kW
- Multimaster functionality and electrical performance
- Provides additional environmental protection for VACON 8000 SOLAR Inverter IP21 enclosures

BENEFITS

- Turnkey delivery in an optimized structure
- Short delivery and installation
- Easy to monitor and maintain
- Suitable for EPC customers