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Client ID	**285**	*Project ID*	**56**
Title	**MV Power Station 2200**		
Topic & Summary	**MV Power Station 2200 technical description and conditions assessment.**		
Document nr.	**EC0128556PR01A**	*Type*	**Description**
Issue	**A**	*Status*	**Finalized**
Branch	**EC – EECC Consulting**	*References*	**New Life**
File	**EC0128556PR01A - MV Power Station 2200.docx**		
Keywords	**Inverters, solar power plant, MV power station, SMA**		

Issued by:	**G.Baratti**	*date*	**2026-09-10**	*signature*	GB
Checked by:	**D.Hanselmann**	*date*	**2026-09-11**	*signature*	DH
Released by:	**D.Hanselmann**	*date*	**2026-09-11**	*signature*	DH

Revision History

Issue	*Date*	*Reason*
H		
G		
F		
E		
D		
C		
B		
A	**2026-09-10**	First issue

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Abstract

The document describes the technical specifications and conditions of an MV Power Station, manufactured by SMA Solar Technology AG, which is ready for sale. The MV Power Station is an advanced solution designed for the next generation of 1100 VDC photovoltaic and battery-storage power plants, offering higher power density due to the new Sunny Central UP and Sunny Central Storage UP central inverters. This integrated unit, housed in a 20-foot container, ensures easy transportation, rapid installation, and commissioning. The MV Power Station and all its components have undergone rigorous testing to ensure maximum plant safety, optimal energy yields, and minimized operational risks. The system is designed to operate under various environmental conditions and can be delivered as a turnkey solution for installations worldwide. Additionally, the MV Power Station is ready for DC connections, making it ideal for modern photovoltaic power plant needs.



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1. Introduction

MV Power Station 2200 available for sale, this document describes the various characteristics and its current status. The subject of the opportunity is as follows:

General Data	
OEM	SMA Solar Technology AG
Model	2200-S2
Quantity	6
Available from	September 2026
Country	Chile

Technical Data	
Condition	New
Year of construction	2023
Input voltage	1100 VDC
Output power	1766 KVA
Rated frequency	50 Hz

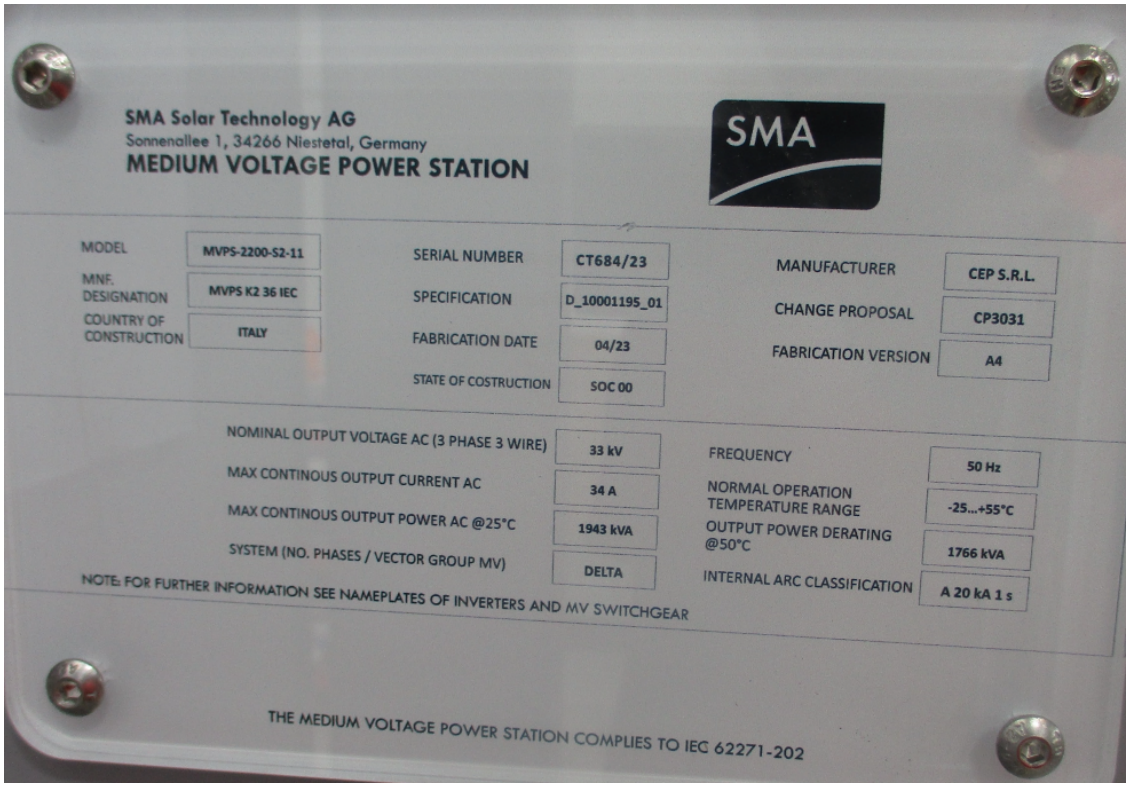


Figure 1: Nameplate

2. Description of Supply

2.1 MV Power Station 2200-S2

The SMA Medium Voltage Power Station offers the highest power density in a plug & play design, which is suitable for global use. Rely on the most robust, technically advanced and internationally certified hardware for power conversion in any climate. As one of the first truly global systems, it is the ideal choice for next generation PV power plants operating at 1100 VDC.

Delivered pre-configured within a 20 ft HC shipping container that easily converts into an installation-ready platform, the system is simple to transport and quick to assemble and commission. The SMA Medium Voltage Power Station combines the highest plant safety with maximum energy yield and minimized logistical and operating risk for large scale PV power plant projects.

2.2 Technical data

Parameter	Value
Model	MVPS 2200-S2
Manufacturer	SMA
Application	Solar power plant
Sunny central up	
Model	SC 2200
DC side	
Inverters	SC2200
Max input voltage	1100 V
Efficency	
Max. efficiency / European efficiency / CEC efficiency	98.8% / 98.6% / 98.5%
Protective Devices	
Input-side disconnection point	DC load break switch
Output-side disconnection point	AC circuit breaker
DC overvoltage protection	Surge arrester, type I & II
AC overvoltage protection (optional)	Surge arrester, class I & II
Lightning protection (according to IEC 62305-1)	Lightning Protection Level III
Degree of protection: electronics / air duct / connection area (as per IEC 60529)	IP54 / IP34 / IP34
Features	
DC connection	Terminal lug on each input (without fuse)
AC connection	With busbar system (three busbars, one per line conductor)
Communication	Ethernet, Modbus Master, Modbus Slave
Enclosure / roof color	RAL 9016 / RAL 7004
Standards and directives complied with	CE, IEC / EN 62109-1, IEC / EN 62109-2, AR-N 4110, IEEE1547, UL 840 Cat. IV, Arrêté du 23/04/08
EMC standards	IEC 55011, IEC 61000-6-2, FCC Part 15 Class A
Quality standards and directives complied with	VDI/VDE 2862 page 2, DIN EN ISO 9001
Transformer Output (AC) on the medium-voltage side	
Nominal power at SC UP (at -25°C to + 35°C / 40°C optional 50°C)1)	1900 kVA / 1710 kVA
Nominal power at SCS UP (at -25°C bis +25°C / 40°C optional 50°C)1)	2200 kVA / 2000 kVA

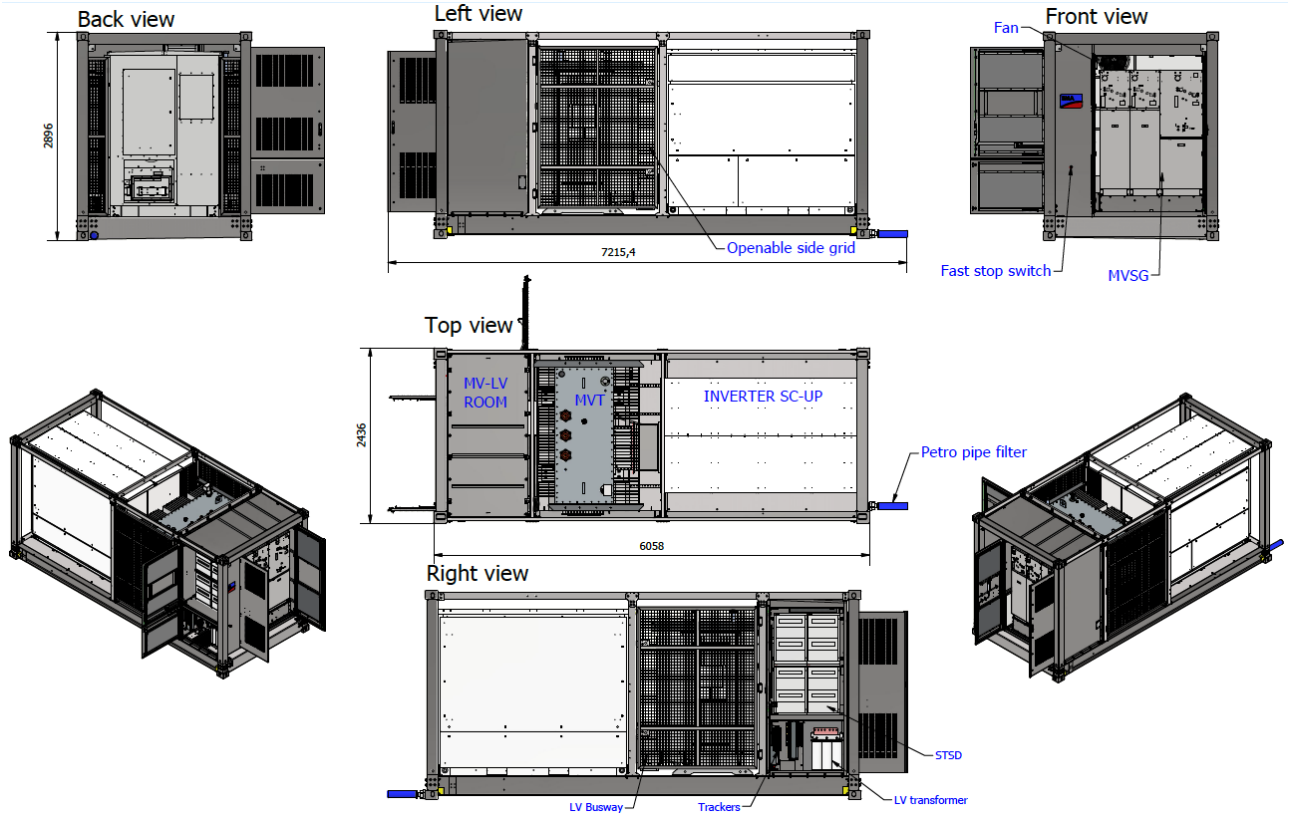
Typical nominal AC voltages	33 kV
AC power frequency	50 Hz
Transformer vector group Dy11	Dy11
Transformer cooling methods	KNAN
Transformer no-load losses	Standard
Transformer short-circuit losses	Standard
Max. total harmonic distortion	< 3%
Protective devices	
Input-side disconnection point	DC load-break switch
Output-side disconnection point	Medium-voltage vacuum circuit breaker
DC overvoltage protection	Surge arrester type I
Galvanic isolation	Yes
Internal arc classification medium-voltage control room (according to IEC 62271-202)	IAC A 20 kA 1 s
General Data	
Dimensions (W / H / D)	6058 mm / 2896 mm / 2438 mm
Weight	< 18 t
Self-consumption (max. / partial load / average)1)	< 8.1 kW / < 1.8 kW / < 2.0 kW
Self-consumption (stand-by)1)	< 370 W
Ambient temperature	-25°C to +45°C
Degree of protection according to IEC 60529	Control rooms IP23D, inverter electronics IP54
Environment	standard
Degree of protection according to	IEC 60721-3-4 (4C1, 4S2)
Maximum permissible value for relative humidity	95% (for 2 months/year)
Max. operating altitude above mean sea level	1000 m
Fresh air consumption of inverter	6500 m3/h
Features	
DC terminal	Terminal lug
AC connection	Outer-cone angle plug
Tap changer for MV-transformer	without
Shield winding for MV-Transformer	without

Station enclosure color	RAL 7004
Transformer for external loads	without
Industry standards (for other standards see the inverter datasheet)	IEC 60076, IEC 62271-200, IEC 62271-202, EN50588-1, CSC Certificate

2.2.1 Specific configuration

Power Class	:			**MVPS-2200-S2-11**
Target Country	:	**3**	→	**Europe**
Inverter type	:	**0**	→	**SC**
Inverter Power	:	**0**	→	**2200 kVA**
Ambient Temperature	:	**1**	→	**-25°C to +55°C**
Altitude	:	**1**	→	**1001 - 2000 m**
Environment	:	**1**	→	**Harsh**
MV Transformer	:	**1**	→	**KNAN**
Transformer Protection	:	**1**	→	**Full Protection**
Nominal Voltage	:	**H**	→	**33 kV**
Nominal Frequency	:	**0**	→	**50 Hz**
Transformer Vector Group	:	**0**	→	**Dy11**
Transformer Tap Changer	:	**1**	→	**With**
Transformer Shield Winding	:	**0**	→	**Without**
Transformer Load Profile	:	**1**	→	**24 Hours**
Transformer Losses	:	**2**	→	**Eco Design 2**
Oil Containment	:	**1**	→	**With**
MV Switchgear	:	**2**	→	**3F-SD-SD-CB-36 kV**
Short Circuit Rating MV Switch	:	**1**	→	**20 kA 1 s**
Protection MV Switchgear	:	**1**	→	**Over Current**
Accessories MV Switchgear	:	**1**	→	**Auxiliary Contacts**
LV-Transformer	:	**3**	→	**40 KVA, 400 V**
Safety Equipment	:	**7**	→	**Light +HD and Fast Stop**
Monitoring	:	**3**	→	**MVSG + FS+HD**
Cable Entry Kit	:	**1**	→	**With**
Transport Packaging	:	**1**	→	**Sea Freight**
Country Package	:	**0**	→	**Without**
Language	:	**ES**	→	**Spanish**
Factory Warranty	:	**1**	→	**5 years**
Customized Solution	:	**1**	→	**Yes**

2.2.2 Layout


Back view
2896
Left view
7215,4
Openable side grid
Front view
Fan
Fast stop switch
MVSG
Top view
MV-LV ROOM
MVT
INVERTER SC-UP
2436
6058
Petro pipe filter
Right view
STSD
LV transformer
LV Busway
Trackers

3. Storage status

The container is currently stored outdoors, while maintaining its original protective plastic wrapping, which provides additional protection against atmospheric agents and helps preserve its condition.



Figure 2: Storage condition

4. Scope of Supply

Position	Quantity	Description
1000	6	MV Power Station **2200**

Table 1: scope of supply.

4.1 Exclusions

Scope not explicitly listed in the Scope of Supply (Table 1) is excluded.
The following items are explicitly excluded:

Mechanical
Modification of any existing systems not explicitly cited.
Missing parts and components.
Electrical
Modification of existing systems not explicitly cited.
Civil
Land preparation
Temporary accesses and final accessing roads
Security plan and hardware.
Temporary accommodation
Finishing and fencing
First aid station and ambulances
Waste disposal facility

Table 2: exclusions from the Scope of Supply.

Project Management
Attainability of installation, commissioning and operation permits, or any other permit.
Assessment and acceptance of safety relevant issues.
Any study, engineering, documentation, or other service.
Additional works resulting from changes in laws or any other reasons, for which EECC is not responsible.
Building of Site Facilities of any kind (lights, water supply and treatment, heating, power supply, etc.).

Custom duties and taxes.
Engineering
Design and detailed engineering of existing equipment.

Table 3: exclusions from scope of Services.

4.2 Technical documentation

Following documents are part of the technical documentation (list is preliminary):

Pos.	Document	Available
1	General	
1.1	Document & drawing list	yes
1.2	Technical data sheet	yes
1.3	Component manuals	yes
1.4	Quality documentation	yes

Table 4: technical documentation