

SPECIFICATIONS: 20ft ISO container

	Lenght:	Width:	Height:
Outside dimensions	6058 mm	2438 mm	2591 mm
Inside dimensions	5898 mm	2344 mm	2390 mm
Internal door opening		2330 mm	2280 mm
Tare	2155 kg		
Cubic capacity	33,20 m ³		
Payload	28325 kg		

SPECIFICATIONS: 40ft ISO container

	Lenght:	Width:	Height:
Outside dimensions	12192 mm	2438 mm	2591 mm
Inside dimensions	12032 mm	2344 mm	2390 mm
Internal door opening		2330 mm	2280 mm
Tare	3790 kg		
Cubic capacity	67,20 m ³		
Payload	26690 kg		



- For more details, please contact us.
- These highlights represent our latest standard specification. Earlier productions may differ slightly.
- Please note that internal dimensions and tare weight may differ nominally depending on manufacturer.
- Imperial measurements have been rounded up to the next mm.

SG2500U-MV

Turnkey Station for North America 1500 Vdc System - MV Transformer Integrated



High Yield

- Advanced three-level technology, max. inverter efficiency 98.8%
- Effective cooling, 1.1 overload capacity, no derating up to 50 °C
- Max. DC/AC ratio more than 1.5



Easy O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external LCD



Saved Investment

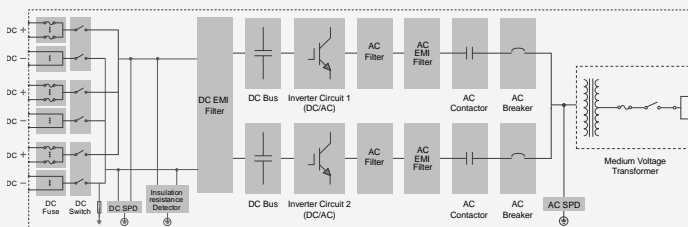
- Low transportation and installation cost due to 20-foot container design
- DC 1500 V system, low system cost
- Integrated MV transformer and LV auxiliary power supply



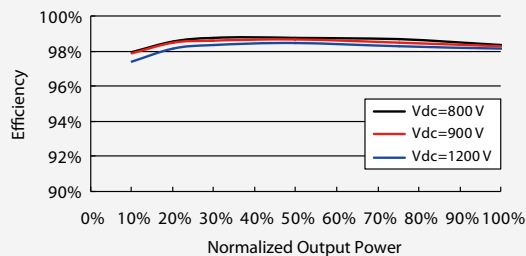
Grid Support

- Comply with UL 1741, UL 1741 SA, IEEE 1547, Rule 21 and NEC code
- Grid support including L/HVRT, L/HFRT, soft start/stop, specified power factor control and reactive power support

Circuit Diagram



Inverter CEC Efficiency Curve



Input (DC)**SG2500U-MV**

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	800 V / 840 V
MPP voltage range for nominal power	800 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	21
Max. PV input current	3508 A
Max. DC short-circuit current	4210 A
PV array configuration	Negative grounding

Output (AC)

AC output power	2750 kVA @ 45 °C / 2500 kVA @ 50 °C
Max. inverter output current	2886 A
AC voltage range	10 – 35 kV
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Inverter max. efficiency / Inverter CEC efficiency	98.8 % / 98.5 %
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Transformer

Transformer rated power	2500 kVA
Transformer max. power	2750 kVA
LV / MV voltage	0.55 kV / 10 – 35 kV
Transformer vector	Dy1
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

Protection

DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Load break switch + fuse
Overvoltage protection	DC Type II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Optional
Overheat protection	Yes

General Data

Dimensions (W*H*D)	6058*2896*2438 mm 238.5"*114.0"*96.0"
Weight	15.7 T 34612.6 lb
Degree of protection	NEMA 3R
Auxiliary power supply	110 Vac, 5 kVA / Optional: 480 Vac, 30 kVA
Operating ambient temperature range	-30 to 60 °C (> 50 °C derating) -22 to 140 °F (> 122 °F derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional) 3280.8 ft(standard) / > 3280.8 (optional)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	UL 1741, IEEE 1547, UL1741 SA, NEC 2014/2017
Grid support	Night SVG function (optional), L/HVRT, L/HFRT, active & reactive power control and power ramp rate control



Improve service continuity with Eaton's Pad-Mounted NOVA Reclosers



Eaton's Pad-Mounted NOVA Recloser

The Pad-Mounted NOVA Recloser is an electronically controlled, automatic circuit recloser that features solid di-electric vacuum interruption in a mild steel enclosure design that provides protection from the elements—like weather, tampering or rodents. This proactive approach enables the recloser to function as true pad-mount equipment that increases safety, reliability, protection and controls.

Key features

- **Flexible design** with either single or three-phase vacuum interruption or switching to automatically protect and isolate faulted electrical distribution systems
- **Enhanced safety** with a true dead-front construction
- **Protection for your investment** against transformer high-side damage—transformer primary or secondary protection utilizing internal voltage and current monitoring
- **Increased reliability** of pad-mounted equipment (e.g. weather and rodent proof, tamper resistant)
- **Customized cabinet design** with options for metering and communication
- **Easy installation** with self/line power using a power transformer as a control power transformer

- **Galvanized and stainless steel enclosure** options available for harsh environments
- **Flexible overcurrent protection scheme**—either Eaton Form 6 or SEL 351/651 controller. Optional safety upgrades including stadium lighting in an OSHA-compliant package

Why choose Eaton

- **Safety**—true dead-front construction, option for Eaton's Cleer™ visible break
- **Customization to meet your unique needs**—ability to add arrestors, flexible options for voltage and current sensing
- **Superior vacuum design** based on proven technology
- **Flexibility design of enclosure** to meet customer footprint

A solution for a variety of situations

Eaton offers Pad-Mounted NOVA Reclosers to support customer needs from 15kV to 38kV applications. Eaton offers three-phase switching or single-phase switching or interruption.

- 15 kV Pad-Mounted NOVA
- 25 kV Pad-Mounted NOVA
- 38 kV Pad-Mounted NOVA

Each Pad-Mounted NOVA Recloser makes use of several patented technologies that allow it to be a top performer in the market. Coupled with the cycloaliphatic-epoxy encapsulation, a high-performance vacuum interrupter and

automated microprocessor, the Pad-Mounted NOVA Recloser operates at a highly efficient level. In addition, the Pad-Mounted NOVA Recloser units are controlled by a single Form 6 recloser control that can be programmed for three operating modes. Finally, the solid polymer insulation is highly resistant to ozone, moisture, contamination, ultra-violet light, and tracking. In combination with the dual-coil actuator, the Pad-Mounted NOVA Recloser provides years of rugged performance.

Eaton's turnkey services

Eaton's modernization and turnkey services place personnel in the field to complete a variety of undertakings such as, managing your reconditioning, upgrade or modernization project from start to finish. With more than 900 highly trained professionals in 80 locations throughout the U.S. and Canada, we have the local, national, and international capabilities to provide a range of electrical, civil and mechanical equipment services. This broad range of service capabilities has established Eaton as a leader in the engineering service industry.

Eaton's modernization and turnkey services place personnel in the field to complete a variety of undertakings, such as managing your reconditioning, upgrade or modernization project from start to finish. With our turnkey services, you'll have a single point of accountability and a reduced risk of project delays. The result is safer, more reliable and cost-efficient project.