

# Product data sheet

Specifications



## Voltage regulator DVR, 440 kVA, 400 V, up to 50 % sags reduction, working as primary

DVR44050400M

### Main

**Product or component type** Voltage stabilizer

### Complementary

**Network type** 3P  
3P + N

**Network rated voltage** 400 V AC

**Network frequency** 50/60 Hz +/- 10 %

**[THDU] total harmonic distortion** 0...5 % (nominal)  
5...8 % (maximum): output voltage regulated at +/- 1 %  
8...10 % (short time): output voltage regulated at +/- 3 %  
10 % (limit)

**Sag correction capability** For 3 phases 50 % for 30 s, accuracy +/- 1 %

**Sag correction response** 3 ms

**Ride-through time** 40 ms

**Output voltage accuracy** +/- 1 % typical

**Admitted output load** Up to 100% in variation  
Up to 100% in unbalance  
Inverter overload 110 %, 30 s  
Inverter overload 150 %, 1 s

**Efficiency** at global efficiency load factor (98 %)  
Linear load at at nominal power load factor ,PF 0.8 (97.7 %)  
Linear load at at nominal power load factor ,PF 1 (98.1 %)  
Non-linear load at at nominal power load factor (97.4 %)

**Continuous regulation range** -25...20 %

**Power capacity** 440 kVA

**Display type** Colour touchscreen

**Display size** 9 inch

**Language** English  
Chinese  
Spanish

**Information displayed** Alarms  
List of events

**Installed device** External bypass 1250 A

**Transfer time** 0.5 ms from inverter to bypass when outside of the output voltage tolerance

**Overload withstand** 2 In, 60 s  
5 In, 10 s  
30 In, 200 ms  
30 In, if overload is exceeded equipment integrity is not guaranteed, 200 ms

Mean time to repair	2 h
Enclosure mounting	Floor-standing
Heat dissipation	Primary function
Electromagnetic compatibility	Voltage dips and interruptions immunity test conforming to IEC 61000-4-34 Immunity for industrial environments conforming to IEC 61000-6-2 Emission standard for industrial environments conforming to IEC 61000-6-4
Accessibility for operation	Front
Location of connection	Bottom
Type of cooling	Forced cooling
Noise level	75 dB
Material	Cold-rolled steel Hot-rolled steel
Surface finish	Polyester powder

## Environment

Enclosure degree of protection	IP20
Overvoltage category	III
Pollution degree	2
Operating altitude	<= 1000 m without derating
Ambient air temperature for operation	0...40 °C
Relative humidity	0...95 % non-condensing
Standards	IEC 62477-1 SEMI F47 ISO 14001 ISO 9001
Product certifications	CE EAC C-Tick
Ambient air temperature for storage	-15...45 °C
Net weight	1250 kg
Height	2152 mm
Width	1214 mm
Colour	Light grey (RAL 7035)
Depth	750 mm

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	236.0 cm
Package 1 Width	84.5 cm
Package 1 Length	132.0 cm
Package 1 Weight	1425.0 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes

<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

**Recommended replacement(s)**