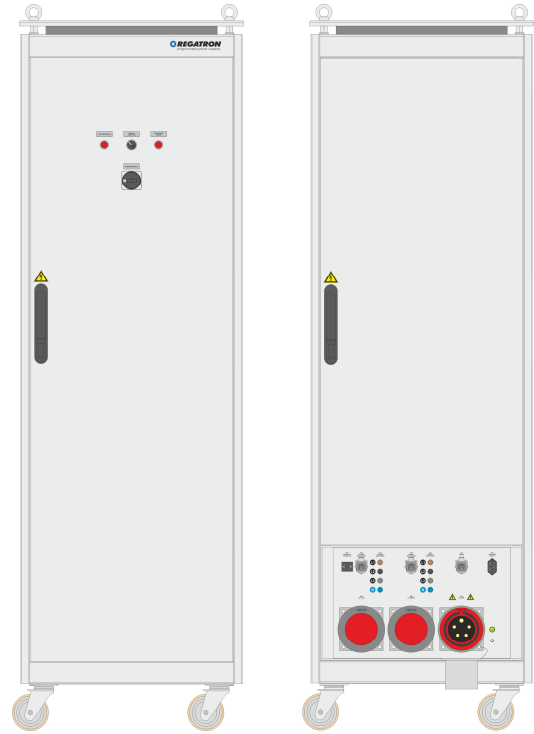


TC.FLK75.2WR.S

Flicker Impedance Network



Key Values

Flicker Impedance Network for full-compliance testing according to IEC/EN 61000-3-3 and IEC/EN 61000-3-11

Reference impedance Z_{ref}	according to IEC/TR 60725
Test impedance Z_{test}	according to IEC/TR 60725
Accuracy @full current range	±3 %
Voltage	3 × 400/230 V _{ACrms} ±10% 3 × 380/220 V _{ACrms} ±10%
Continuous current range	3 × 0...75 A _{ACrms}
Mobile 19" rack	mounted on wheels

Technical Data

Auxiliary Supply (30X1)

Mains connection		
Mains connection type	L + N + PE	
Plug type	IEC 60320-1	appliance inlet C14
Line voltage	120/230 V _{ACrms} ±10%	
Input power	530 VA	
Line frequency	50/60 Hz ±10%	

Isolation

Working voltage	input auxiliary supply to PE	230 V _{ACrms}
Test voltage	input auxiliary supply to PE	2120 V _{DC} / 1 s

Technical Data (continued)

AC Lineside Ratings (10X1)

Connection type	3L + N + PE	
Plug type	CEE 125 A	
Line voltage	3 × 400/230 V _{ACrms} ±10% 3 × 380/220 V _{ACrms} ±10%	
Input current	3 × 0...75 A _{ACrms}	
Line frequency	50/60 Hz ±10%	

Isolation

Working voltage	line L1, L2, L3 to PE	305 V _{ACrms}
Test voltage	line L1, L2, L3 to PE	2670 V _{DC} / 1 s

AC Loadside Ratings (10X3, 20X2)

Connection type	3L + N + PE	
Socket type	CEE 125 A	
Voltage	3 × 400/230 V _{ACrms} ±10% 3 × 380/220 V _{ACrms} ±10%	
Current	3 × 0...75 A _{ACrms}	
Frequency	50/60 Hz ±10%	

Isolation

Working voltage	output L1, L2, L3 to PE	305 V _{ACrms}
Test voltage	output L1, L2, L3 to PE	2670 V _{DC} / 1 s

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Technical Data (continued)

Impedance values according to IEC/TR 60725

Reference impedance Z_{ref}	
Z_{ref} line @50 Hz	0.24 Ω + j0.15 Ω
Z_{ref} neutral @50 Hz	0.16 Ω + j0.10 Ω
Z_{ref} line @60 Hz	0.24 Ω + j0.18 Ω
Z_{ref} neutral @60 Hz	0.16 Ω + j0.12 Ω
Accuracy @full current range	$\pm 3\%$

Test impedance Z_{test}	
Z_{test} line @50 Hz	0.15 Ω + j0.15 Ω
Z_{test} neutral @50 Hz	0.10 Ω + j0.10 Ω
Z_{test} line @60 Hz	0.15 Ω + j0.18 Ω
Z_{test} neutral @60 Hz	0.10 Ω + j0.12 Ω
Accuracy @ ≥ 16 A	$\pm 3\%$

Measuring Points

Direct Measuring (11X3) and Flicker Measuring (21X3)	
Connection type	3L + N
Socket type	4 laboratory sockets 4 mm
Voltage	3 \times 400/230 V _{ACrms} $\pm 10\%$ 3 \times 380/220 V _{ACrms} $\pm 10\%$

Direct Measuring (11X5), Sense (11X7), and Flicker Measuring (21X5)	
Connection type	3L + N + PE
Socket type	5 pole Harting socket, including mating plug
Voltage	3 \times 400/230 V _{ACrms} $\pm 10\%$ 3 \times 380/220 V _{ACrms} $\pm 10\%$

Isolation		
Working voltage	output L1, L2, L3 to PE	305 V _{ACrms}
Test voltage	output L1, L2, L3 to PE	2670 V _{DC} / 1 s

Control

Digital I/O Interface (60X1)	
Socket type	D-Sub 9 socket
Voltage	24 V _{DC} $\pm 10\%$
Current	1 A

Isolation		
Test voltage	output to PE	500 V _{DC} / 1 s

Protection

Type of Protection	IEC 60529	IP 20
Cabinet locking system	EK333	

General Data

Weight & Dimension (see Figure 1)

Weight	approx. 250 kg / 550 lbs
Width	620 mm / 24 1/2"
Height with wheels and eyelet rings	2010 mm / 79 1/8"
Depth with plug and sockets	1030 mm / 40 1/2"

Ambient

Operating temperature	5...40 °C
Storage temperature	-18...70 °C
Relative air humidity (non-condensing)	0...95%
Installation altitude	0...2000 m above sea level ¹⁾
Installation	IEC 60721-3-3 indoor, air-conditioned
Operating orientation	upright
Storage, transport orientation	upright
Acoustic noise level @full power	<80 dB @1 m

Cooling

Cooling type	forced air-cooling
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Standards

Protection class	IEC 61140	I
Overvoltage category according to IEC 60664-1		
Line to Line	II	
Line to PE	II	
Degree of pollution	IEC 61439-1	2
Area of application	industrial	

Approval CE

Low Voltage Directive 2014/35/EU		
General rules	EN 61439-1:2011	
Power switchgear and controlgear assemblies	EN 61439-2:2011	
EMC Directive 2014/30/EU		
General rules	EN 61439-1:2011	
Power switchgear and controlgear assemblies	EN 61439-2:2011	
RoHS Directive 2011/65/EU	EN IEC 63000:2018	

Approval UKCA

Electrical Equipment (Safety) Regulations 2016		
General rules	BS EN 61439-1:2011	
Power switchgear and controlgear assemblies	BS EN 61439-2:2011	
Electromagnetic Compatibility Regulations 2016		
General rules	BS EN 61439-1:2011	
Power switchgear and controlgear assemblies	BS EN 61439-2:2011	
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012		
	BS EN IEC 63000:2018	

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1) above 1000 m slight temperature derating possible

Dimensions

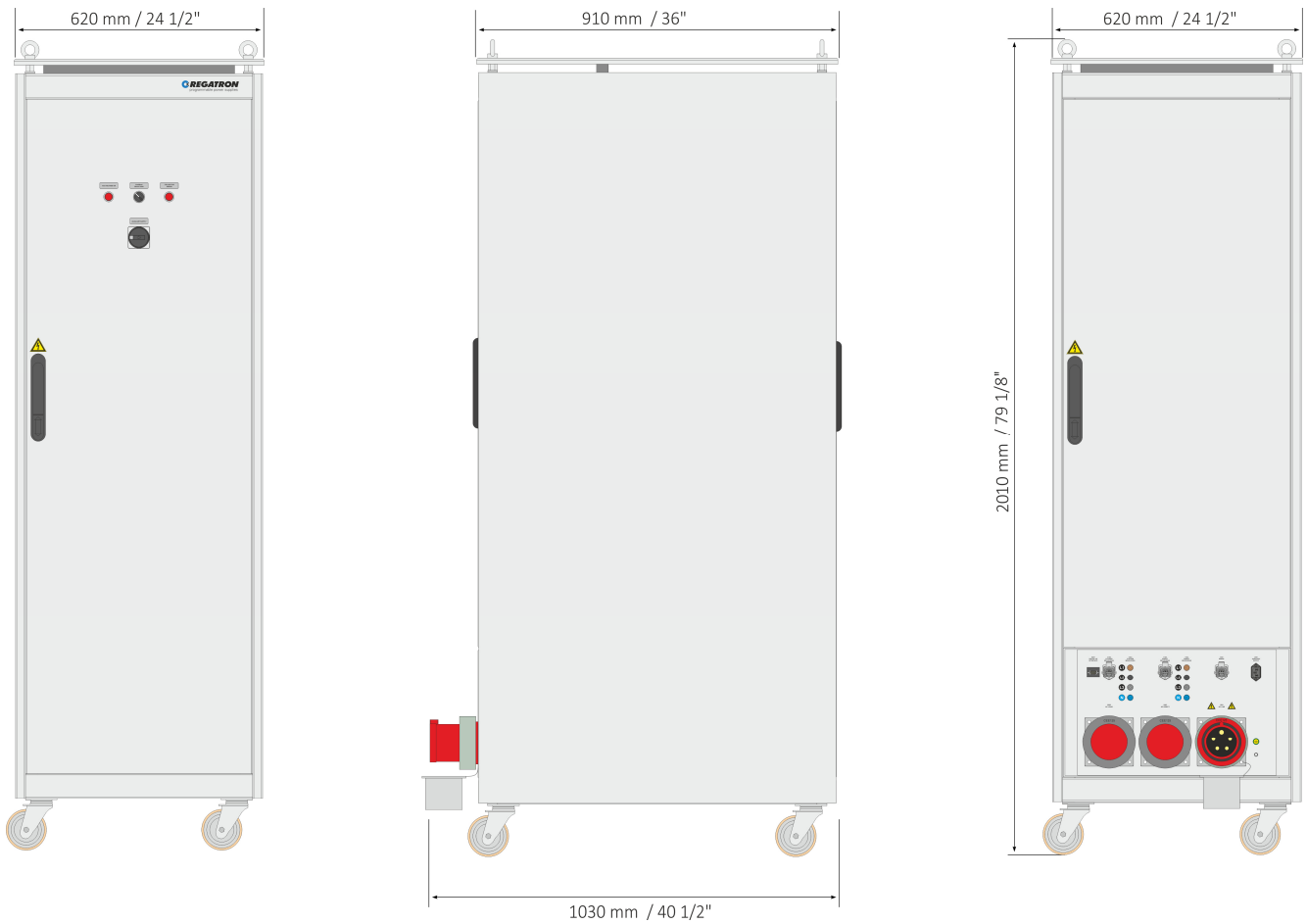


Figure 1: Front, side and rear view of the 19" rack with dimensions.

For further information to included features see related product description <PD_EMC-Testsystem-61000-3-X_EN_YYYY-MM-DD.pdf>.

This product is developed, produced and tested according to ISO 9001 by REGATRON.

For detailed technical information, contact your local sales partner or REGATRON.

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All product specifications and information contained herein are subject to change without notice.

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Class: Project specific use only