Lovato electric
ENERGY AND AUTOMATION

Product designation			Panel m. color glcd mult., RS485
Product type designation			DMG7500
Type			Three-phase + neutral
Auxiliary supply Us			
Auxiliary rated supply voltage AC		VAC	100…240
Auxiliary rated supply voltage DC		VDC	110…250
Auxiliary operating voltage range			
AC			
	min	VAC	90
	Max	VAC	264
DC			
	min	VDC	100
	Max	VDC	300
Operational frequency			
	min	Hz	45
	max	Hz	66
Power consumption			
	Max	VA	15
Power dissipation Max		W	6
Measuring voltage inputs			
Rated voltage (Ue)			
	phase-phase	VAC	600
	phase-neutral	VAC	347
Operating voltage range			
	phase-phase	VAC	40…830
	phase-neutral	VAC	5...480
Voltage inputs operational frequency			
	min	Hz	45 and 360
	max	Hz	66 and 440
Voltage inputs measurement method			True RMS
Connection method			Single. Two. Three-phase with or without neutral. Balanced three-phase system. Three-phase ARON.
Current inputs			
Rated current (Ie)		A	1A/5A
Measurement range			0.004…6
Measurement method			TRMS

DMG7500

POWER ANALYZER WITH WIDESCREEN COLOUR LCD. AUXILIARY SUPPLY 100...240VAC.
EXPANDABLE WITH 3 EXP... MODULES, BUILT-IN RS485 PORT, COMPATIBLE WITH EASY
BRANCH POWER MONITORING SYSTEM

|		
Overload capacity		+20% Ie by external CT with 5A secondary
Overload peak	A	120A for 0.5s
Accuracy		
VLN voltage		Class 0.2 (IEC/EN 61557-12), V:50-480V~
VLL voltage		Class 0.2 (IEC/EN 61557-12), V:87-830V~
Current		Class 0.2 (IEC/EN 61557-12), In:5A~
Frequency		Class 0.02 (IEC/EN 61557-12)
Active power		Class 0.5 (IEC/EN 61557-12)
Reactive power		Class 1 (IEC/EN 61557-12)
Active energy		Class 0.5s (IEC/EN 62053-22)
Reactive energy		Class 1 (IEC/EN 62053-24)
THD		Class 5 (IEC/EN 61557-12)
2nd 15th order harmonics		Class 5 (IEC/EN 61557-12)
Insulations		
Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.6
Operating frequency withstand voltage	kV	5.4
Functions		
Harmonic analysis		63rd order
PLC logic		Yes
Type of communication port		RS485
Ethernet-RS485 gateway function		+EXP1013
Data logging memory		No
Neutral/earth current and voltage monitoring		No
Statistics of network quality according to EN50160		No
EASY BRANCH support		Yes
Mechanical features		
Housing type		Xantar RAL 7035
Terminals type		Removable
Conductor cross section		
	min	mm²	0.2
	Max	mm²	2.5
	min	AWG	24
	Max	AWG	12
Tightening torque (Max)		
	Nm	0.5
	lbin	4.5

DMG7500

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Fixing			Flush-mounting
Weight		g	420

Ambient conditions

Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+60
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80
Maximum Pollution degree				2
Protection degree				IP65

Dimensions

Cutout
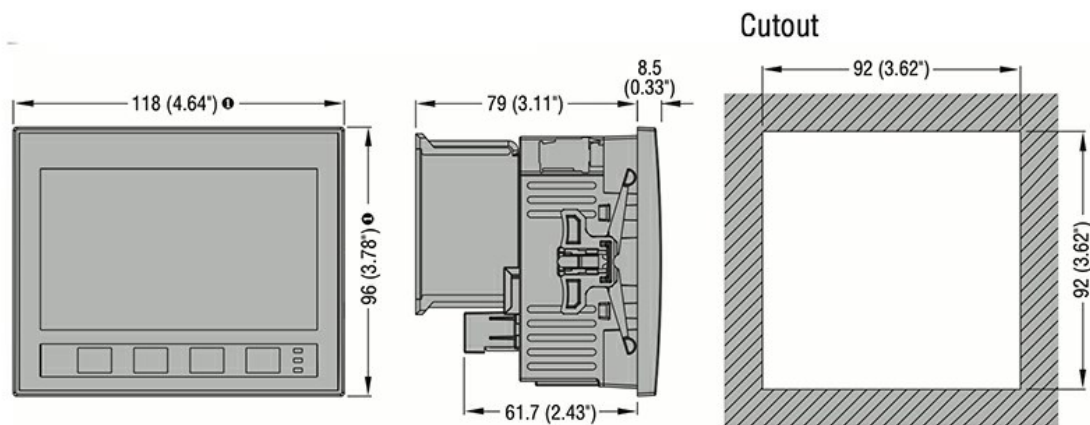
❶ Dimensions with gasket: 122x100mm/4.80x3.94".

Wiring diagrams

Single-phase

Two-phase

Three-phase with or without neutral

Three-phase without neutral in ARON connection

Balanced 3-phase connection with or without neutral
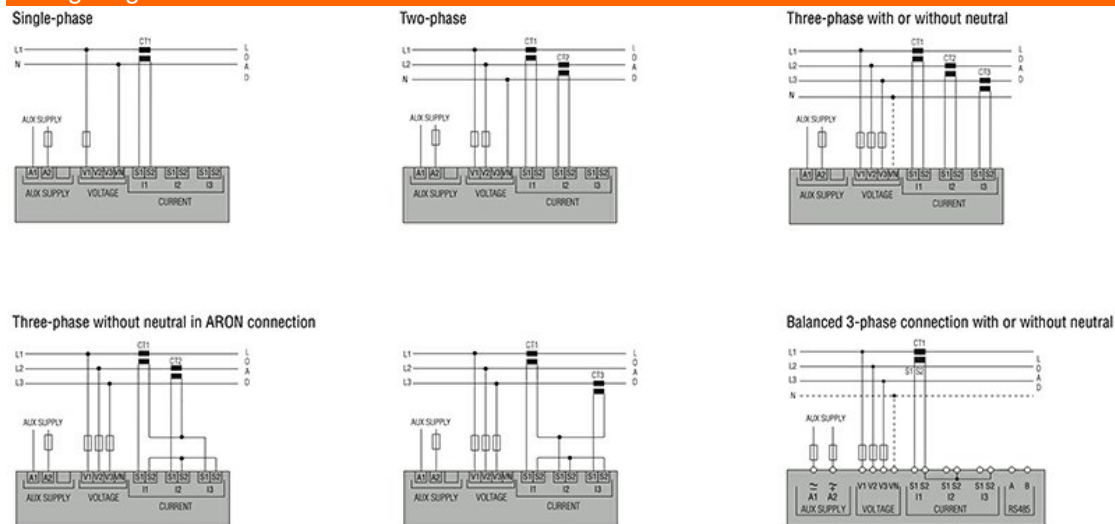
CODE	AUX SUPPLY
DMG100-110-200-210-300	100...240VAC 110...250VDC
DMG6...	100...440VAC 110...250VDC
DMG7000-7500-8000-9000	100...240VAC 110...250VDC

RS485 for DMG110 and DMG210

RS485 for DMG610

RS485 for DMG7500 and DMG9000
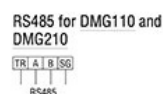
Certifications and compliance

Compliance	
	IEC/EN/BS 61000-6-2
	IEC/EN/BS 61000-6-4

	IEC/EN/BS 61010-1
Certificates	
	CE
	EAC
	UKCA

ETIM classification

ETIM 8.0	EC002301 - Multifunction measuring instrument

DMG7500

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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