

Datasheet

- Three phase 100A direct fed
- MID B+D certified
- Accuracy class 0.5 (Active Energy)
- Bi-directional measurement for kW and kWh
- Configurable pulsed output (Net kWh/Import/Export kWh)
- RS485 Modbus RTU
- Multi-parameter measurement
- Digital input
- Free configuration software

The SDM630 V3 series is an advanced multi-function three phase energy monitoring solution with optional outputs such as pulses, RS485 RTU Modbus and digital inputs. Equipped with configuration and display buttons for ease of navigation through the various parameters and settings. Housed for DIN rail mounting, IP51 protection and direct connection up to 100A. Selectable measurement modes using our free configurations software for kWh display, Total kWh (Import + Export), Import kWh and Net kWh (Export - Import). Certified in the UK according to EU Directive 2014/32/EU. MID Certificate number 0120 / SGS0151.



Specification Table

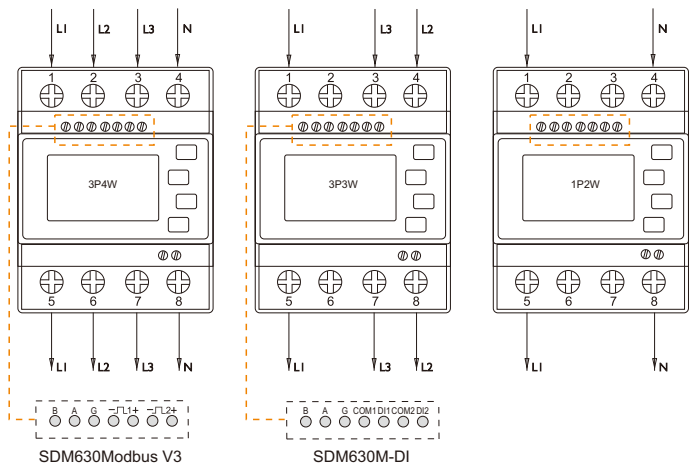
Specification		Performance criteria	
Nominal voltage(Un)	3x230/400 V ac	Operating humidity	≤ 90%, no condensing
Operational voltage	80%~120% of Un	Storage humidity	≤ 95%, no condensing
Insulation capabilities		Operating temperature	-25°C - +55°C/-40°C - +70°C(optional)
- AC voltage withstand	4KV for 1 minute	Storage temperature	-40°C - +70°C
- Impulse voltage withstand	6KV-1.2μs	Reference temperature	23°C± 2°C
Basic current (Ib)	10A	International standard	IEC 62053-21 / EN50470-1/3
Maximum rated current (Imax)	100A	Accuracy class	Class1/Class B
Operational current range	0.4% Ib-Imax	Installation category	CAT III
Over current withstand	30 Imax for 0.01s	Mechanical environment	M1
Operational frequency range	50 or 60Hz	Electromagnetic environment	E2
Power consumption per phase	≤ 2W/10VA	Degree of pollution	2
Display	LCD	Protection against penetration of dust and water	IP51(indoor)
Modbus		Insulating encased meter of protective class	II
Bus type	RS485(semi-duplex)	Electrostatic discharges	8kV contact / 15kV air gap
Protocol	Modbus RTU	Electromagnetic HF fields	IEC 61000-4-3
Baud rate	2400/4800/9600/19200/38400bps	Electrical fast transients	4kV
Address range	1-247	Pulse output	
Max. Bus loading	64pcs	Pulse outputs	2
Communication distance	1000M	Pulse output type	Passive
Parity	EVEN/ODD/NONE	Pulse Output 1	Configurable
Data bit	8	Pulse width	200/100(default)/60ms
Stop bit	1	Pulse output 2	400imp/kWh

For more information on these products, please contact our sales team on 86 0573 83698881 or email sales@eastrongroup.com

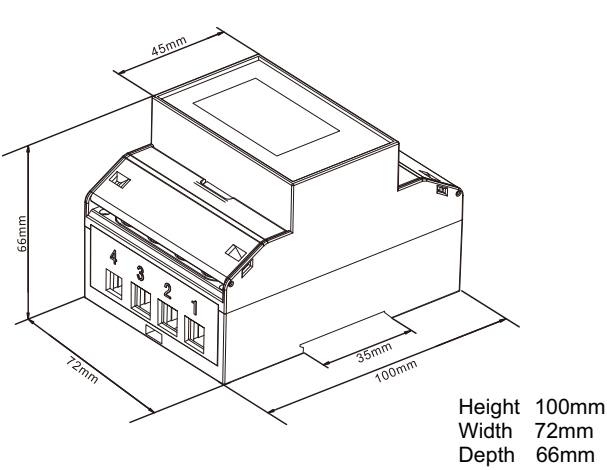
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Datasheet

Wiring Configuration



Dimension Drawing



Ordering Options

Meter Type	Description of Meter
SDM630-Modbus V3	3PH-4W, 3PH-3W, 1PH-2W, 3x230(400)V, 0.5~10(100)A, 50/60Hz, backlighted LCD display, 2 pulse outputs, RS485 Modbus RTU. Measures kWh, kVarh, W, Var, VA, V, A, PF, THD, Hz, Max.DMD, Imp_kWh, Exp_kWh etc.
SDM630M-DI	3PH-4W, 3PH-3W, 1PH-2W, 3x230(400)V, 0.5~10(100)A, 50/60Hz, backlighted LCD display, 2 digital inputs, RS485 Modbus RTU. Measures kWh, kVarh, W, Var, VA, V, A, PF, THD, Hz, Max.DMD, Imp_kWh, Exp_kWh etc.

Conformity References

Electromagnetic Compatibility: EN61326-1:2013 & EN61326-2-3:2013

Low Voltage Directive: EN61010_1:2010+A1:2019 & EN61010-2-30:2010

MID DIRECTIVE: 2014/32/EU