

ELC100

Reactive Power Autocompensation Controller

OVERVIEW

ELC100 is an integrated controller for reactive power compensation and power distribution monitoring. It integrates data acquisition, communication, reactive power compensation, grid parameter measurement, and analysis.

If this product adopts RS485 communication method (ELC100 -Z), it can connect up to 32 pieces of HY series combined low voltage power capacitor compensation device or select 12V voltage output Control method (ELC100 -D), which can provide 12 or 16 steps Output (only one of the two methods can be selected)



MODEL AND MEANING

1 with this function 0 without this function, can be customized

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I	I	I	I	I	I	I	I	I
3 Display	4 Data storage	clock display	data storage	clock display	data storage	clock display	data storage	data storage

No.	Name	Meaning
1	Control method	Z: RS485 communication D: 12V voltage output control
2	Uplink communication (RS485 Modbus protocol-RTU)	standard



*Note: ELC100 -D16 16 steps output (Can't be configured with USB interface, capacitor current detection function)



TECHNICAL PARAMETERS

NORMAL WORKING AND INSTALLATION CONDITIONS

	Ambient temperature	-25°C ~ +55°C
	Relative humidity	Relative humidity ≤ 50% at 40°C ; ≤ 90% at 20°C
	Altitude	≤ 2000m
	Environmental conditions	no harmful gas and steam, no conductive or explosive dust, no severe mechanical vibration

POWER CONDITION

	Rated voltage	220V±20% ; THDv≤5%
	Rated frequency	50Hz ±5Hz

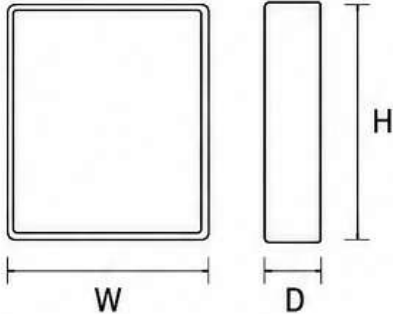
PERFORMANCE

	Measurement accuracy	Voltage: ≤ ±0.5%(0.8-1.2Un), current: ≤ ±0.5%(0.2-1.2In), reactive power: ≤ ±2%, power factor: <±1%	
	Control quantity	ELC100-Z	Rs485 communication control 32 pieces of intelligent capacitors (mixed or three phase compensation) or 16 pieces of communication type composite switches
		ELC100-D	12V output control 12 steps or 16 steps (composite switch node)
	Compensation method	mixed or three phase compensation	

	Control method	RS485
	Protective function	Over-voltage protection, under-voltage protection, under-current protection, over-harmonic protection
	Standard	JB/T 9663-2013

COMMUNICATION MONITORING CAPABILITY

	Communication interface	RS485
	Communication protocol	Modbus protocol

Dimension and structure	Dimension (WxHxD)	Mounting dimension (WxH)
	120*120*85	113*113