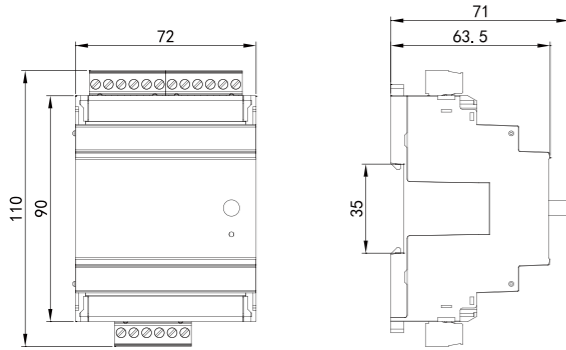




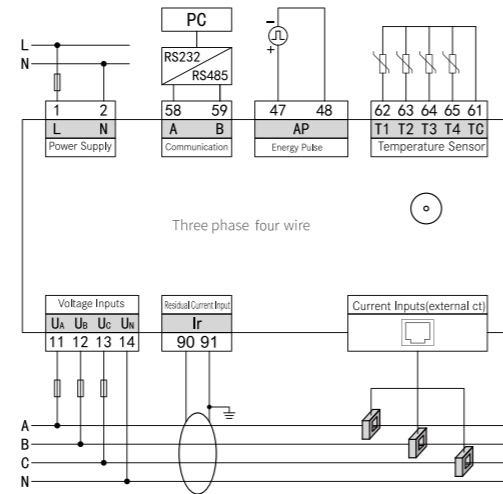
DIMENSIONS

PD194Z-E20C/D/E



TYPICAL WIRING

PD194Z-E20C/D/E



TECHNICAL SPECIFICATION

Model		PD194Z-E20C	PD194Z-E20D	PD194Z-E20E
Accuracy	V/A	0.2%		
	P/Q/S/PF	0.5%		
	F	±0.01Hz		
	±kWh	Class 0.5S		
	±kvarh	Class 2		
Voltage Input	Rated value	AC 100V, AC 380V		
	Overload	Continuous: 1.2Vn Instantaneous: 2Vn/10s		
	Frequency	45Hz~65Hz		
Current Input	Rated value	External CT		
	Overload	Continuous: 1.2In Instantaneous: 2In/5s		
Residual Current Input		AC 1mA		
Temperature measurement		PT100		
Auxiliary Power Supply	Working range	AC/DC 80~270V 50/60Hz		
	Consumption	≤5VA		
Communication Port	RS485	Modbus-RTU, up to 9600bps		
	LoRa	-	-	470/868/915MHz
	GPRS	850/900/ 1800/1900MHz	-	-
	NB-IoT	-	Band 3/5/8	-
Energy Pulse Output		1 photocoupler output, pulse width (80±20%) ms		
Environment Conditions	Operating temperature	-25 C ~ 70 C		
	Storage temperature	-30 C ~ 80 C		
	Relative humidity	≤93%		
	Altitude	≤2500m		
Insulation		≥ 2kVAC		

LNF53/56/58

This series of multi-functional power meters support all-parameter measurement, bi-directional energy metering, four-quadrant reactive metering and harmonic analysis. They can be connected to power monitoring system and energy management system to realize remote data monitoring.



Ultra-thin Design
Bracket Free Installation
LCD Display
High-level Protection



DEVICES



FUNCTION

Networks

-TN, TT, IT networks

Communication

-Interface: RS485
-Protocol: Modbus-RTU

Accuracy

-Energy: 0.5S
-Voltage: 0.2%
-Current: 0.2%

Power Quality(LNF58)

-THD
-Harmonics up to 15th
-Unbalance



APPLICATIONS



MODEL SELECTION



		LNF53	LNF56	LNF58
Dimension(mm)		72×72×44.5	96×96×34	96×96×34
Real-time measurement	U/I/P/Q/S/F/PF	■	■	■
	Demand	■	■	■
Energy metering	Bi-directional energy	■	■	■
	Four-quadrant reactive energy	■	■	■
Power quality monitoring	Unbalance	■	■	■
	THD	-	-	■
	2nd~15th harmonic content	-	-	■
Input & output	Energy pulse	1	1	2
	RS485 communication interface	1	1	1
	Digital input	-	-	2
	Relay output	-	-	2

Note: "■" Yes, "-" No, "□" Optional



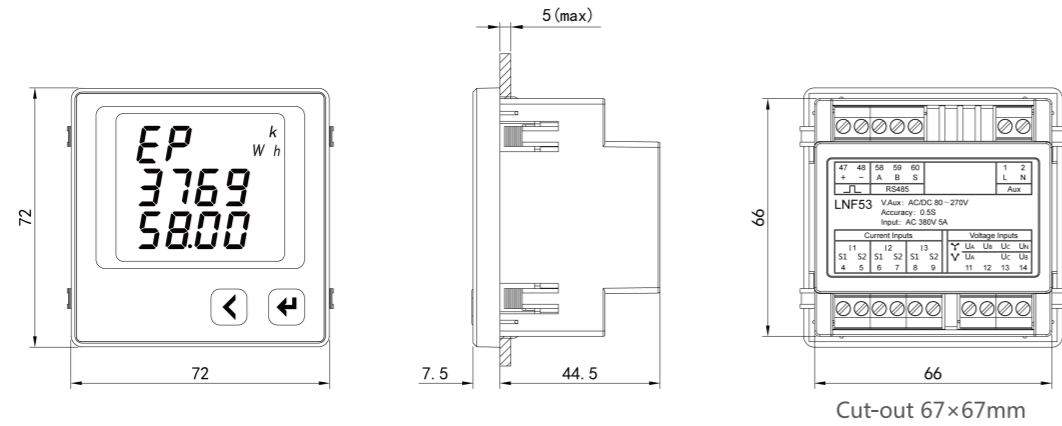
TECHNICAL PARAMETER

Item	Parameter	
Accuracy	Voltage, current: 0.2%; Power: 0.5%; Frequency: +0.01Hz; Active energy: 0.	
Display Data Update Time	1s	
Voltage	Rated voltage	AC100V/AC380V
	Overload	Continuous: 1.2 Vn, instantaneous: 2 Vn/1min
	Energy consumption	≤0.1VA
Signal Input	Rated voltage	1A/5A
	Overload	Continuous: 2In, instantaneous: 10In/5s
	Energy consumption	≤0.2VA
Frequency	45~65Hz	
Communication	RS485 interface	Modbus-RTU protocol, baud rate up to 9600bps
Energy Pulse	Optocoupler isolation, pulse width 80ms+20%	
Digital Input	Optocoupler isolation, passive dry contact	
Relay Output	Contact capacity AC250V 5A or DC 30V 5A	
Power Supply	Working range	AC/DC 80 ~ 270V
	Energy consumption	≤5VA
Environment Condition	Working temperature	-10°C ~ 55°C
	Storage temperature	-25°C ~ 70°C
	Relative humidity	≤93%RH
Altitude	≤2500m	
Safety	Insulation	Signal, power supply, output terminals to case resistance≥100MΩ
	Withstand voltage	Power supply, input and output≥2kV
Protection Level	IP54	

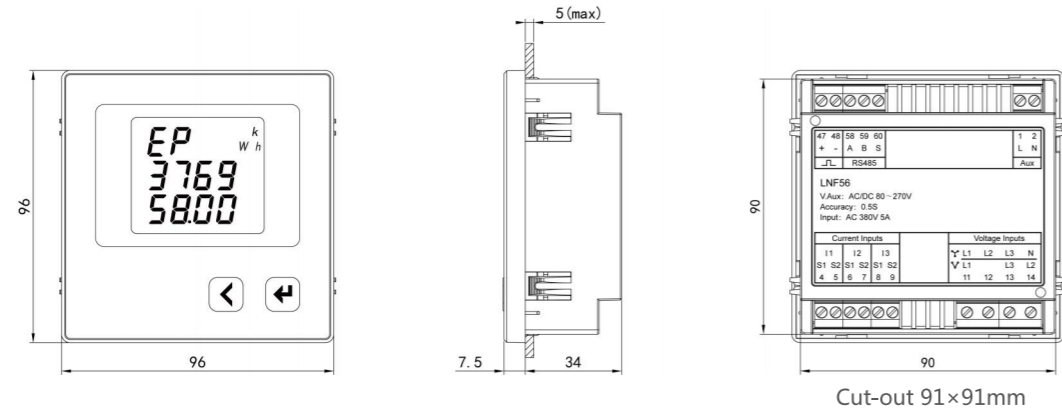


DIMENSION

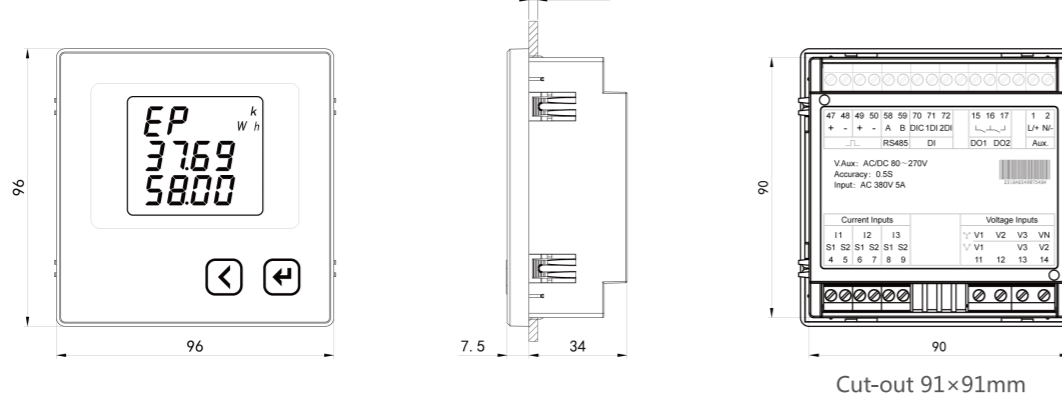
LNF53



LNF56

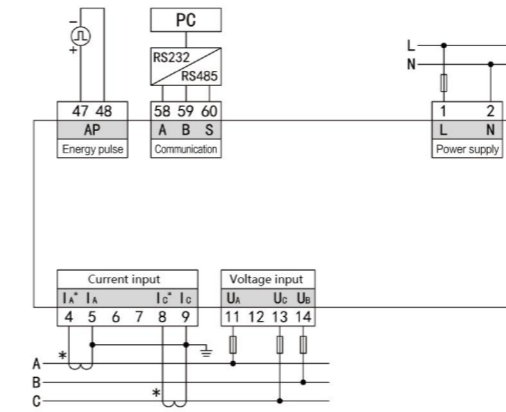


LNF58

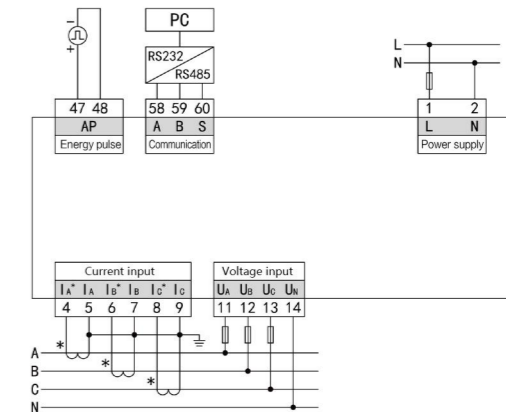


TYPICAL WIRING

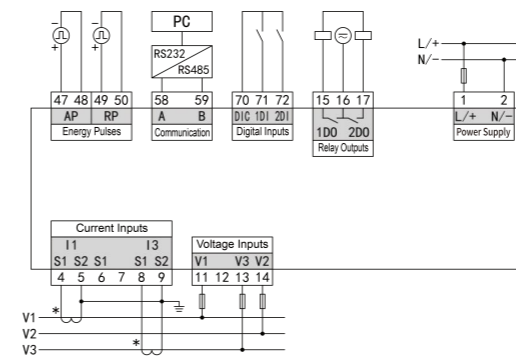
LNF53/LNF56 (3P3W)



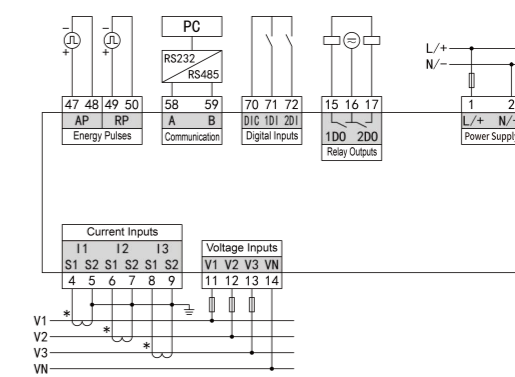
LNF53/LNF56 (3P4W)



LNF58 (3P3W)



LNF58 (3P4W)



ORDER SAMPLE

- Model: LNF56
- Signal input: AC380V, AC1000/5A
- Wiring mode: Three phase four wire
- Other: Factory default setting (Please specify special parameters such as frequency and power supply when ordering)