

ENERGY MANAGEMENT DIN RAIL MOUNTED ENERGY METER

www.sfere-elec.com

Elecnova



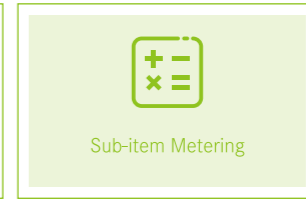
4 Tariffs
Modbus-RTU
Pulse Output



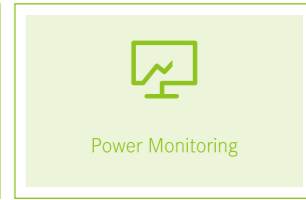
APPLICATION



Energy Management



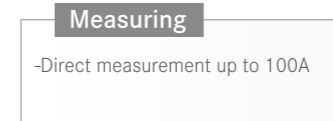
Sub-item Metering



Power Monitoring

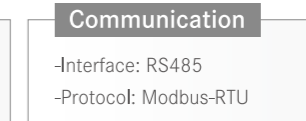


MAIN FEATURES



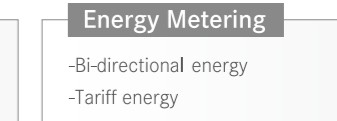
Measuring

-Direct measurement up to 100A



Communication

-Interface: RS485
-Protocol: Modbus-RTU



Energy Metering

-Bi-directional energy
-Tariff energy



COMPARISON TABLE



Model		DDS1946-1P	DDSF1946-1P	DDS1946-2P(M)	DDSF1946-2P(M)	DTS1946-4P(M)	DTSF1946-4P(M)
Wiring	1P2W	■	■	■	■	-	-
	3P3W	-	-	-	-	-	-
	3P4W	-	-	-	-	■	■
Voltage	230V	■	■	■	■	-	-
	3×400V	-	-	-	-	-	-
	3×230/400V	-	-	-	-	■	■
Current	Direct	5(40)A	5(40)A	5(100)A	5(100)A	5(100)A	5(100)A
	Via CT	-	-	-	-	-	-
Measuring	Voltage	■	■	■	■	■	■
	Current	■	■	■	■	■	■
	Power	■	■	■	■	■	■
	Power factor	■	■	■	■	■	■
	Frequency	■	■	■	■	■	■
Energy Metering	±kWh	■	■	■	■	■	■
	Tariffs	-	■	-	■	-	■
Width(mm)		18	18	36	36	72	72
Communication (Modbus-RTU)		■	■	■	■	■	■
Energy Pulse		■	■	■	■	■	■
Display Mode		LCD	LCD	LCD	LCD	LCD	LCD

NOTE:1. ■: Yes -: No □: Optional

2.DDS/DDSF1946-2M and DTS/DTSF1946-2M are MID certified.



COMPARISON TABLE



Model		DDS1946	DDSF1946	DSS1946	DSSF1946	DTS1946	DTSF1946
Wiring	1P2W	■	■	-	-	-	-
	3P3W	-	-	■	■	-	-
	3P4W	-	-	-	-	■	■
Voltage	230V	■	■	-	-	-	-
	3×400V	-	-	■	■	-	-
	3×230/400V	-	-	-	-	■	■
Current	Direct	5(100)A	5(100)A	5(100)A	5(100)A	5(100)A	5(100)A
	Via CT	1.5(6)A	1.5(6)A	1.5(6)A	1.5(6)A	1.5(6)A	1.5(6)A
Measuring	Voltage	■	■	■	■	■	■
	Current	■	■	■	■	■	■
	Power	■	■	■	■	■	■
	Power factor	■	■	■	■	■	■
	Frequency	■	■	■	■	■	■
Energy Metering	±kWh	■	■	■	■	■	■
	Tariffs	-	■	-	■	-	■
Width(mm)		72	72	126	126	126	126
Communication (Modbus-RTU)		■	■	■	■	■	■
Energy Pulse		■	■	■	■	■	■
Display Mode		LCD	LCD	LCD	LCD	LCD	LCD

NOTE: "■": Yes "-": No "□": Optional

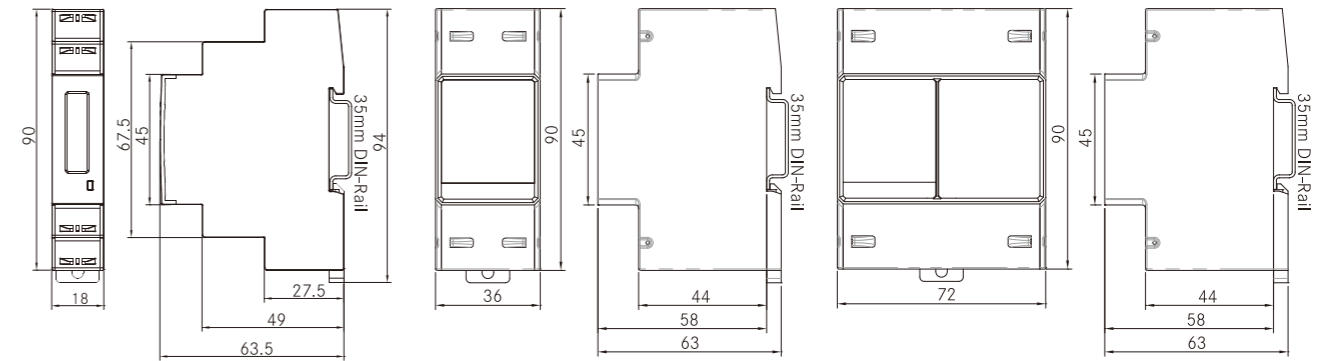


DIMENSIONS

DDS1946-1P/DDSF1946-1P

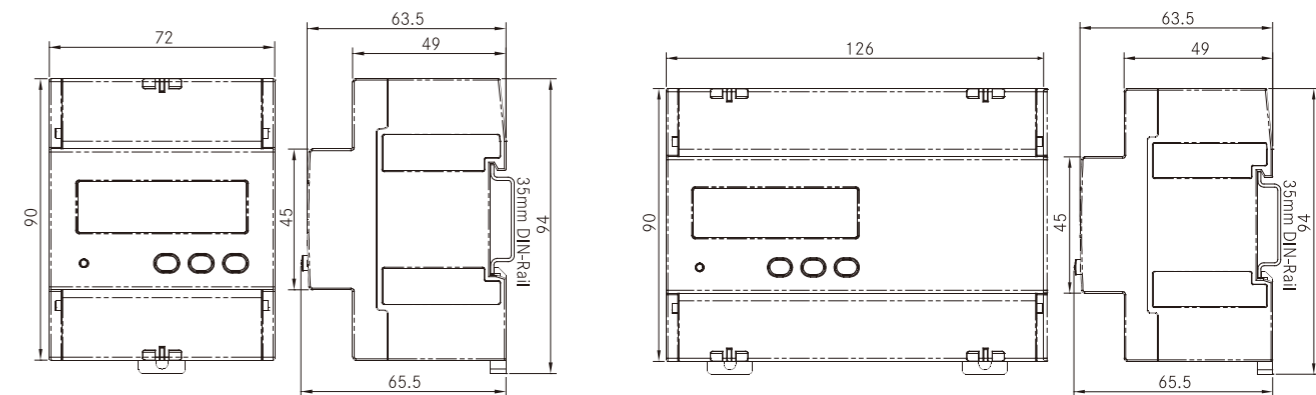
DDS1946-2P(M)/DDSF1946-2P(M)

DTS1946-4P(M)/DTSF1946-4P(M)

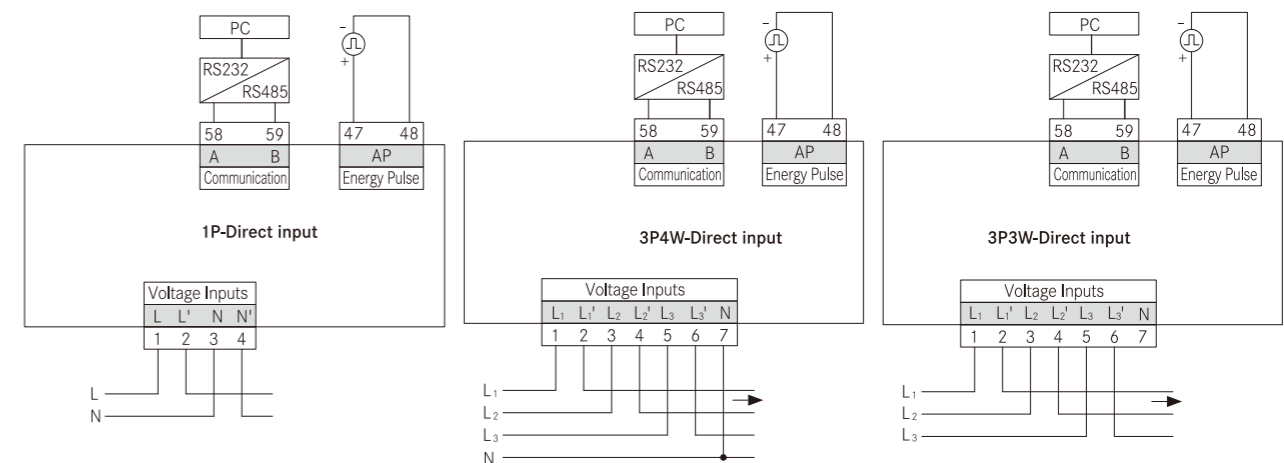


DDS1946/DDSF1946

DSS1946/DSSF1946/DTS1946/DTSF1946



TYPICAL WIRING





TECHNICAL SPECIFICATION

		DDS1946-1P DDSF1946-1P	DDS1946-2P(M) DDSF1946-2P(M)	DDS1946 DDSF1946	DSS1946 DSSF1946	DTS1946-4P(M) DTSF1946-4P(M)	DTS1946 DTSF1946
Normal Voltage		230V	230V	230V	3×400V	3×230/400V	3×230/400V
Current	Direct input	5(40)A	5(100)A	5(100)A	5(100)A	5(100)A	5(100)A
	Via CT input	-	-	1.5(6)A	1.5(6)A	-	1.5(6)A
Accuracy		Class 1 (Optional: Class 0.5S)					
Frequency		45Hz~65 Hz					
Voltage Range		0.8Un~1.2Un					
Start Current	Direct input	0.004Ib					
	Via CT input	0.002In					
Consumption		< 2VA					
Energy Pulse		1 output, pulse width (80±20%) ms					
RTC Error		≤0.5s/day					
Communication		RS485, Modbus-RTU, 2-wire, up to 9600bps					
IP Degree		Front: IP51					
Operating Temperature		-10°C ~ 55°C					
Storage Temperature		-25°C ~ 70°C					
Relative Humidity		≤93%					