

SFERE D-series

Electronic DIN rail energy meter

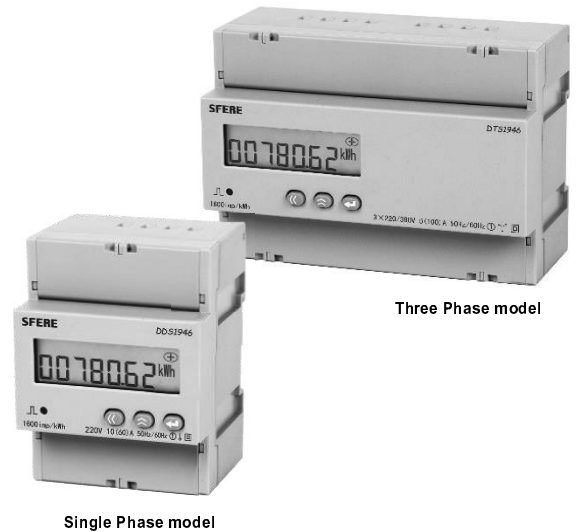


The D-series electronic meters are manufactured using energy metering microprocessor, utilizing digital sampling and SMT circuit technology.

It conforms to IEC 62053-22:2003 energy measurement accuracy. It is primarily used for low voltage AC network kWh metering. It also measures the electrical parameters of voltage, current, power, energy and power factor.

The DIN rail mount construction allows the meter to be installed in compact electrical distribution box. Measurements are displayed with a large LCD display for ease of reading.

Pulse kWh output are standard feature for remote network reading. Anti-tampering sealing seal for closing the meter against unauthorized access. Modbus-RTU communication interface and multi tariff are optional feature.

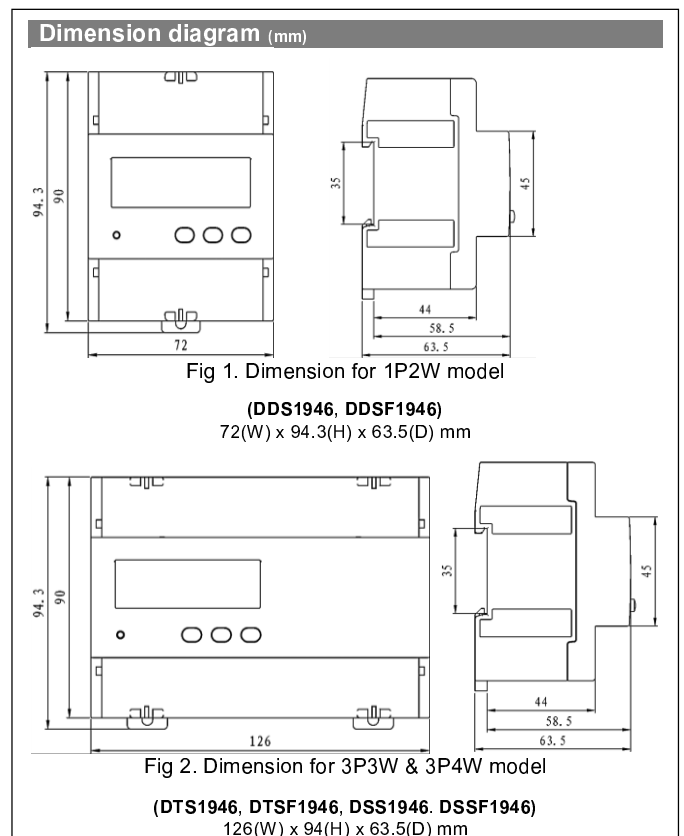
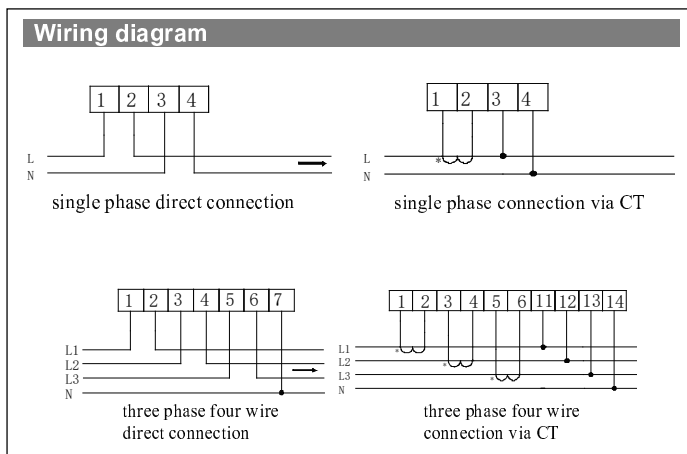


Three Phase model

Single Phase model

General Specification	
Input Current	Direct Connection Single Phase meter 5(30)A, 10(60)A, 20(100)A Three Phase meter 20(100)A
	CT Connection 1.5(6A) all type
Class Accuracy	Class 0.5 (also available Class 1)
Frequency	50Hz/ 60Hz
Voltage Range	0.76Un to 1.14Un
Burden (Direct Circuit)	< 5VA
Burden (CT Circuit)	< 2VA
Operating Temperature	-10C to 55C
Storage Temperature	-25C to 70C
Relative Humidity	5 to 95%RH non-condensing
IP Protection	IP 54 (panel) IP 20 (case)
Standard	
Electricity metering equipment	IEC 62053-22: 2003
EMC, Surge & Transient Immunity	IEC 61000 -4-2, 3, 4, 5, 6, 8, 11 IEC 61000-2-6
Humidity & Thermal test (12h+12h cycle)	IEC60068-2-30

Model overview			
Model	Electric Network	Voltage	Multi Tariff
DDS 1946	1P2W	230VAC L-N	No
DDSF 1946	1P2W	230VAC L-N	Yes
DTS 1946	3P4W	400VAC L-L 230VAC L-N	No
DTSF 1946	3P4W	400VAC L-L 230VAC L-N	Yes
DSS 1946	3P3W	400VAC L-L	No
DSSF 1946	3P3W	400VAC L-L	Yes



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Model Variant Specifications

		Single Phase		Three Phase			
		DDS 1946	DDSF 1946	DSS 1946	DSSF 1946	DTS 1946	DTSF 1946
Wiring mode	Single phase (1P2W)	●	●	-	-	-	-
	Three phase three wire (3P3W)	-	-	●	●	-	-
	Three phase four wire (3P4W)	-	-	-	-	●	●
Voltage range	230V	●	●	-	-	-	-
	3×230/400V	-	-	-	-	●	●
	3×400V	-	-	●	●	-	-
Current specification	Direct input	5(30)A, 10(60)A, 20(100)A		20(100)A			
	Input via CT	1.5(6)A					
Real-time measurement	Voltage & current	●	●	●	●	●	●
	Power	●	●	●	●	●	●
	Power factor	●	●	●	●	●	●
	Frequency	●	●	●	●	●	●
	THD	-	-	●	●	●	●
Energy metering	Bi-directional energy	●	●	●	●	●	●
	Four-quadrant energy	-	-	-	-	-	-
	Multi-rate energy	-	●	-	●	-	●
Demand		-	-	-	-	-	-
Events record		-	-	-	-	-	-
Communication interface	RS485 Modbus-RTU	○	○	○	○	○	○
Energy pulse		●	●	●	●	●	●
Display mode		LCD	LCD	LCD	LCD	LCD	LCD

- : Yes
- : No
- : Optional

Note:
120A 3P4W & 3P3W Direct connection models are available on request.
Other voltage available on request.

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