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.

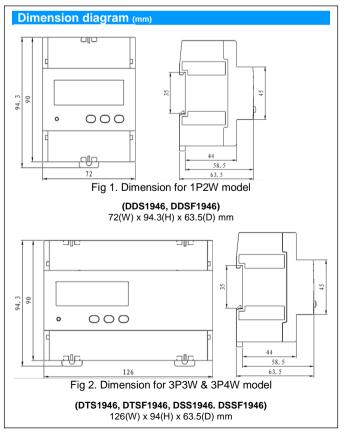


Single Phase model

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					

Wiring diagram	
1 2 3 4 L	1 2 3 4
single phase direct connection	single phase connection via CT
1 2 3 4 5 6 7 L1 L2 L3 N three phase four wire direct connection	three phase four wire connection via CT

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 (1P2W)	•	•	-	-	-	-	
	Three phase three wire (3P3W)		ı	-	•	•	ı	-	
	Three phase four wire (3P4W)		-	-	-	-	•	•	
Voltage range	230V		•	•	-	-	-	-	
	3×230,	/400V	-	-	-	-	•	•	
	3×400\	V	-	-	•	•	-	-	
Current specification	Direct	input	10(30)A, 60)A, 100)A	20(100)A				
	Input v	ria CT	1.5(6)A						
	Voltage	e & current	•	•	•	•	•	•	
Real-time	Power		•	•	•	•	•	•	
measurement	Power factor		•	•	•	•	•	•	
	Frequency		•	•	•	•	•	•	
	THD		-	-	•	•	•	•	
Energy metering	Bi-dire	ctional energy	•	•	•	•	•	•	
	Four-quadrant energy		ı	-	-	1	ı	-	
	Multi-r	rate energy	-	•	-	•	-	•	
Demand		-	-	-	-	-	-		
Events record		-	-	-	-	-	-		
Communication RS485 interface Modbus-RTU		0	0	0	0	0	0		
Energy pulse		•	•	•	•	•	•		
Display mode		LCD	LCD	LCD	LCD	LCD	LCD		

• : Yes

- : No

O: Optional

Note:

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

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