






Sensors

TRANSDUCER SPECIFICATIONS

	IT 60-S	IT 200-S	IT 400-S	IT 700-S	IT 1000-S
					
Primary Current Range DC, RMS Sinus	60 A	200 A	400 A	700 A	1000 A
Overload Ability Short Time (100 ms)	300 Apk	1000 Apk	2000 Apk	3500 Apk	4000 Apk
Max. burden resistor (100 % of I _p)	10 ohm	10 ohm	2.5 ohm	2.5 ohm	2.5 ohm
di/dt (accurately followed)	> 25 A/μs	> 100 A/μs	> 100 A/μs	> 100 A/μs	> 100 A/μs
Temperature influence	< 2.5 ppm/K	< 2 ppm/K	< 1 ppm/K	< 1 ppm/K	< 1 ppm/K
Output Ratio	100 mA at 60 A	200 mA at 200 A	200 mA at 400 A	400 mA at 200 A	1 A at 1000 A
Bandwidth (0.5 % of I _p)	DC ... 800 kHz	DC ... 500 kHz	DC ... 500 kHz	DC ... 250 kHz	DC ... 500 kHz
Linearity	< 0.002 %	< 0.001 %	< 0.001 %	< 0.001 %	< 0.001 %
Offset	< 0.025 %	< 0.008 %	< 0.004 %	< 0.005 %	< 0.005 %
Frequency Influence	0.04 %/kHz	0.06 %/kHz	0.06 %/kHz	0.12 %/kHz	0.06 %/kHz
Angular Accuracy	< 0.025° + 0.06°/kHz	< 0.025° + 0.05°/kHz	< 0.025° + 0.09°/kHz	< 0.025° + 0.18°/kHz	< 0.025° + 0.09°/kHz
Rated isolation voltage rms, single isolation CAT III, pollution deg. 2 IEC 61010-1 standards EN 50178 standards	2000 V 1000 V	2000 V 1000 V	2000 V 1000 V	1600 V 1000 V	300 V 300 V
Test voltage 50/60 Hz, 1 min	5.4 kV	5.4 kV	5.4 kV	4.6 kV	3.1 kV
Inner diameter	26 mm	26 mm	26 mm	30 mm	30 mm
DEWESoft® Shunt	5 ohm	5 ohm	2 ohm	2 ohm	1 ohm



SIRIUSi-PWR-MCTS2 / SIRIUSir-PWR-MCTS2

Power supply	9-36V DC
Max power consumption	85 W
Physical dimensions	265 x 140 x 65 [mm]
Operating temperature	-20 to 50°C
Storage temperature	-40 to 85°C
Humidity (@60°C)	95% RH non-condensing
Output	4x Isolated Power supply (1500V DC, 60sec)
Output voltage	+/-15V DC
Maximum output per channel	20 W
Short circuit protection	indefinite (automatic recovery)
Over load protection	150 % of I _{out} max. typ

This power supply is required for all zero-flux transducers: IT60-S, IT200-S, IT400-S, IT700-S, IT1000-S, and for the current clamps DS-CLAMP-200DC und DS-CLAMP-500DC.

CURRENT CLAMPS AC/DC

	DS-CLAMP-200DC	DS-CLAMP-500DC	DS-CLAMP-500DCS	DS-CLAMP-150DC	DS-CLAMP-1800DC
					
Type	Flux Gate sensor	Flux Gate sensor	Flux Gate sensor	Hall sensor	Hall sensor
Range	nominal 200 A rms / max. 400 A rms	500 A rms or DC	500 A rms or DC	150 A rms / 300 A peak	1800 Apk
Bandwidth	DC to 500 kHz	DC to 100 kHz	200 kHz	DC to 100 kHz	DC to 20 kHz
Accuracy	0.3 % of reading	0.3 % of reading	0.3 % of reading	1 % + 2 mA	2.5 % +/- 0.5A
Phase	≤ 0.1 ° (up to 100 Hz)	≤ 0.1 ° (up to 100 Hz)	≤ 0.1 ° (up to 100 Hz)	-	-
TEDS	Fully supported	Fully supported	Fully supported	Fully supported	Fully supported
Sensitivity	10 mV/A	4 mV/A	4 mV/A	20 mV/A	1 mV/A
Resolution	-	-	-	±1mA	±1mA
Overload Capability	500A (1min)	1000 A DC	-	500A DC (1min)	2000A DC (1min)
Dimensions (Clamp opening)	153mm x 67mm x 25mm (Ø 20 mm)	238mm x 116mm x 35 mm (Ø 50 mm)	153mm x 67mm x 25mm (Ø 20 mm)	205 mm x 60 mm x 15 mm (Ø 32 mm)	205 mm x 60 mm x 15 mm (Ø 32 mm)

CURRENT CLAMPS AC

	DS-CLAMP-5AC	DS-CLAMP-15AC	DS-CLAMP-200AC	DS-CLAMP-1000AC
				
Type	Iron-Core	Iron-Core	Iron-Core	Iron-Core
Range	5 A	15 A	200 A	1000 A
Bandwidth	10 kHz	10 kHz	10 kHz	10 kHz
Accuracy	1 - 12 A: ± 0,5 % of reading 0,5 - 1 A: ± 1 % of reading 5 mA - 0,5 A: ± 2 % of reading	1% for currents of 1 - 15 A 2.5% for currents < 1 A	1% for currents of 100 - 240 A 2,5% for currents of 10 - 100 A 3,5% for currents of 0,5 - 10 A	0,3% for currents of 100A - 1200 A 0,5% for currents of 10A - 100 A 2 % for currents < 1A
Phase	1 - 12 A: ± 1 ° 0,5 - 1 A: ± 1 ° 5 mA - 0,5 A: ± 2 °	≤ 3° for currents of 1 - 15 A ≤ 5° for currents < 1 A	≤ 2,5° for currents of 100 - 240 A ≤ 5° for currents of 10 - 100 A not specified for currents of 0,5 - 10 A	0,7° for currents of 100A - 1200 A 1° for currents of 10A - 100 A not specified for currents of < 1A
TEDS	Fully Supported	Fully Supported	Fully Supported	Fully Supported
Sensitivity	100 mV/A	100 mV/A	10 mV/A	1 mV/A
Resolution	-	0.01 A	0.5 A	0.001 A
Overload Capability	-	Crest Factor of 3	Crest Factor of 3	1200 A for 40 minutes
Dimensions (Clamp opening)	102 x 34 x 24 mm (Ø 15mm)	135 x 51 x 30 mm (Ø 22mm)	135 x 51 x 30 mm (Ø 22mm)	216 x 111 x 45 mm (Ø 53mm)

ROGOWSKY COILS AC

	DS-FLEX-3000-35	DS-FLEX-3000-35-HS	DS-FLEX-3000-80	DS-FLEX-30000-120
				
Type	Rogowski coil	Rogowski coil	Rogowski coil	Rogowski coil
Range	3 A, 30 A, 300 A, 3000 A	3000 A	3 A, 30 A, 300 A, 3000 A	30 A, 300 A, 30000 A
Bandwidth	10 Hz to 20 kHz	1 MHz	10 Hz to 20 kHz	10 Hz to 20 kHz
Accuracy	1%	1%	1%	1%
Coil Length	350 mm (Ø 100 mm)	350 mm (Ø 100 mm)	800 mm (Ø 250 mm)	1200 mm (Ø 380 mm)
TEDS	not supported	supported	not supported	not supported

Further Rogowski coils available on request! Ranges from 0.3 A to 30,000 A. Bandwidth 1 Hz to 30 MHz. Accuracy up to 0.2 %. Variable coil length.

SHUNTS AND AC/DC TRANSDUCER

	DS-SHUNT-05	DSii-10A
		
Type	Shunt	Isolated Current Transducer
Range	5 A	10 A (overload capability 80 A for 1 sec)
Bandwidth	-	100 kHz
Accuracy	0.1 %	0.5 %
Resistance	0.05 Ohm	-
Safety Voltage	600 V CAT III	600 V CAT III
TEDS	not supported	Fully Supported