

# Chapter 5 Specifications

## 5.1 Specifications

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Item		Specifications	
Output Part	Max. peak Power	25 kW (2 kA Range)	(CS-220)
		12.5 kW (1 kA Range)	(CS-210)
		6.25 kW (500A Range)	(CS-205)
	Voltage Range <sup>(Note1)</sup>	50 V <sup>(Note2)</sup>	
	Current Range	2 kA to 5 A (2/1/5 Step)	(CS-220)
		1 kA to 5 A (2/1/5 Step)	(CS-210)
		500 A to 5 A (2/1/5 Step)	(CS-205)
	Setting Resolution	1/±20000	
	Mode	PULSE	
Measure- ment Part	Polarity	POSITIVE, NEGATIVE	
	Setting Resolution	± (Set value x 2% + Set Range x 0.1%)	
		Note1: Voltage setting is specified with no load	
		Note2: Limited to 40V at 2 kA setting in voltage mode	
	Voltage Range <sup>(Note1)</sup> ④	50 V to 200 mV (2/1/5 Step)	
	Current Range <sup>(Note1)</sup> ③	2 kA to 5 A (2/1/5 Step)	(CS-220)
		1 kA to 5 A (2/1/5 Step)	(CS-210)
		500 A to 5 A (2/1/5 Step)	(CS-205)
	Measurement Resolution	1/±20000	
Data Acqui- sition	Measurement Accuracy <sup>(Note2,3,4)</sup>	± (Set value x 2% + Set Range x 0.1%)	
		Note1: Voltage measurement is measured at MAIN UNIT (using MV SENSE terminal)	
		Note2: Can measure up to 125% of the measurement range	
		Note3: Specified within the measurement range	
		Note4: Specified in combination with MAIN UNIT	
Data Acqui- sition	Measurement cycle	2 ms to 5 s	
	Measuring point	Can be set	
	Measurement time	Can be set	
	Pulse Width <sup>(Note1)</sup>	10 μs to 500 μs (2 kA, 1 kA) 10 μs to 1 ms (500 A to 5 A) Note1: When the pulse width is narrow, it may not be possible to output up to the maximum voltage / current.	
	Duty Ratio	≤ 0.1% (2 kA) ≤ 0.25% (1 kA) ≤ 0.5% (500 A, 200 A) ≤ 1% (100 A to 5 A)	

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Item		Specifications
Output Resistance		25 mΩ (2 kA Range) (Typical value) 50 mΩ (1 kA Range) (Typical value) 100 mΩ (500 A Range) (Typical value)
Control signal		Control interface input / output SENSE output Calibration CAL input
Power Source	Power Voltage Range / Frequency	AC 100 to 240 V $\pm$ 10%, 50/60 Hz
	Power consumption	300 VA max (CS-220) 270 VA max (CS-210) 270 VA max (CS-205)
Physical characteristics	Dimensions (W×H×D)	424 mm × 132 mm × 556 mm (Excluding accessories and projection) (CS-220) 424 mm × 132 mm × 556 mm (Excluding accessories and projection) (CS-210 / CS-205)
	Weight	About 22 kg (Excluding accessories and options) (CS-220) About 21 kg (Excluding accessories and options) (CS-210) About 21 kg (Excluding accessories and options) (CS-205)
Environmental Condition	Performance ensured temperature	+10 °C to +35 °C
	Operating temperature	0 °C to +40 °C, 5% to 80% RH (30 °C, No condensation)
	Operation Humidity	upper limit 55% RH (40 °C, No condensation)
	Warm-up time	30 minutes from power on Note: The performance is the ensured value after the warm-up time.
	Storage Temperature/Humidity	-20 °C to +60 °C, 5% to 80% RH (No condensation)
	Altitude	Operating: Up to 2000 m
Accessory		HC-FIXTURE Connection unit : 1 Instruction manual (this manual) : 1 Power Cord : 1 Cord Strap : 1