

Basic characteristics data

Model	Circuit method	Switching frequency [KHz]	Input current	Rated input fuse	Inrush current protection circuit	PCB/Pattern			Series/Parallel operation availability	
						Material	Single sided	Double sided	Series operation	Parallel operation
CES	Forward converter	420	Refer to table 1	-	-	glass fabric base, epoxy resin		Multilayer	Yes	*1
CQS	Forward converter	420	Refer to table 1	-	-	glass fabric base, epoxy resin		Multilayer	Yes	*1

*1 Refer to Instruction Manual.

Table1. The value of input current (at rated input voltage and rated load)

[A]

Model	1.8V	2.5V	3.3V	5V	12V
CES48	1.3	1.5	1.9	1.8	1.7
CQS48	2.2	2.6	3.4	3.2	3.8