



CHE100 / CHE100W

100 WATT 4:1 INPUT

DC-DC CONVERTERS

SINGLE OUTPUT

FEATURES

- * 100W Isolated Output
- * Half-Brick Size, Six-Sided Shield Metal Case
- * High Efficiency to 93%
- * 4:1 Input Range
- * Regulated Outputs
- * 250KHz Switching Frequency
- * Continuous Short Circuit Protection
- * Input under-voltage Protection
- * Over Temperature/Voltage/Current Protection
- * Remote ON/OFF
- * Full Load Operation up to 60°C
with Heat-sink M-C091 Natural Convention
- * No Tantalum Capacitor Inside
- * CE Mark Meets 2004/108/EC
- * Safety Meets UL60950-1, EN60950-1, and IEC60950-1



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.		CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD	(4)	(3)	
CHE100W-24S3V3	9-36VDC	3.3VDC	0mA	25A	200mA	3.94A	85.5	87	25000μF
CHE100W-24S05	9-36VDC	5VDC	0mA	20A	150mA	4.66A	88.5	89.5	20000μF
CHE100W-24S12	9-36VDC	12VDC	0mA	8.4A	200mA	4.62A	90	90.5	8400μF
CHE100W-24S15	9-36VDC	15VDC	0mA	6.7A	200mA	4.62A	89.5	90.5	6700μF
CHE100W-24S24	9-36VDC	24VDC	0mA	4.2A	100mA	4.76A	88.5	89	4200uF ⁽²⁾
CHE100W-24S48	9-36VDC	48VDC	0mA	2.1A	100mA	4.76A	89.5	88.5	2100μF ⁽²⁾
CHE100W-48S3V3	18-75VDC	3.3VDC	0mA	25A	130mA	1.96A	87.5	88	25000μF
CHE100W-48S05	18-75VDC	5VDC	0mA	20A	130mA	2.28A	91.5	92	20000μF
CHE100W-48S12	18-75VDC	12VDC	0mA	8.4A	100mA	2.26A	92.5	93	8400μF
CHE100W-48S15	18-75VDC	15VDC	0mA	6.7A	100mA	2.26A	91.5	92.5	6700μF
CHE100W-48S24	18-75VDC	24VDC	0mA	4.2A	100mA	2.32A	91	91	4200uF ⁽²⁾
CHE100W-48S48	18-75VDC	48VDC	0mA	2.1A	100mA	2.32A	91.5	90.5	2100μF ⁽²⁾
CHE100-24S24	18-36VDC	24VDC	0mA	4.2A	100mA	4.57A	--	92	4200uF ⁽²⁾

NOTE: 1. Nominal Input Voltage 24, 48 VDC

2. Require a 10uF Aluminum Capacitor Connected Between +Vout and -Vout for 24 & 48Vout Models.

3. Measured at Nominal Input Voltage.

4. Measured at 12VDC for 24SXX, 24VDC for 48SXX.

INPUT SPECIFICATIONS:

OUTPUT SPECIFICATIONS:

GENERAL SPECIFICATIONS:

NOTE:

- 2

Mouser Electronics

Authorized Distributor

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