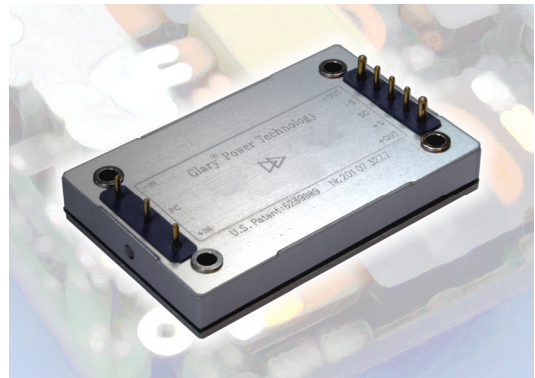


- Wind input 10~36V
- Efficiency 87%@ 5V/15A
- Total height 0.50"(12.7mm)
- Outline footprint L 2.3"×W1.45"
- Operation temperature -40°C~110°C
- Six-sides metal enclosed with M3 threaded
- 3.0mm Fins Metal-Plate

The CBQ18S050-LP2SMLA provides 5V/15A outputs with industry standard quarter brick footprint. The module features six-sides metal enclosure and high thermal conductivity silicone potting for extreme environmental conditions. The module is customized for MINGLONG request version: **A** with ultra-wide input range applications that use a 4X (10V~36V) input bus.



Part Number *	Maximum Input	Maximum Output	Efficiency
CBQ18S050-LP2SMLA	10V~36V 86.5W	5V/15A 75W	87%

Part Number *	Maximum Input	Maximum Output	Efficiency

* Options for **CBQ18S050-LP2SMLA** is listed as follows:

- P** (Enable Logic): **P**: Positive
2 (Pin Length): **2**: 0.20"
S (Package Option): **S**: Six-side Metal enclosure / 3.0mm Metal-Plate.
MLA (Suffix Mark): Customized for MINGLONG request version: **A**



Example: **CBQ18S050-LP2SMLA** is a **CBQ** series quarter brick 10~36Vin (9.8V Turn-on / 8.9V Turn-off) to 5V/15A dc/dc converter with positive control logic, 0.20" pin length, Six-side Metal enclosure / 3.0mm Metal-Plate. The module is customized for MINGLONG request version: **A**.

ABSOLUTE MAXIMUM RATINGS		
Temperature	Operation	-40°C to +110°C
	Storage	-55°C to +125°C
Input Voltage Range	Operation:	-0.5V to +40Vdc
	Transient (100mS):	50Vdc Maximum
Isolation Voltage	Input to Output	2.0KVdc
	Input to Case	1.0KVdc
	Output to Case	1.0KVdc
Remote Control Voltage		-0.5V to +12Vdc

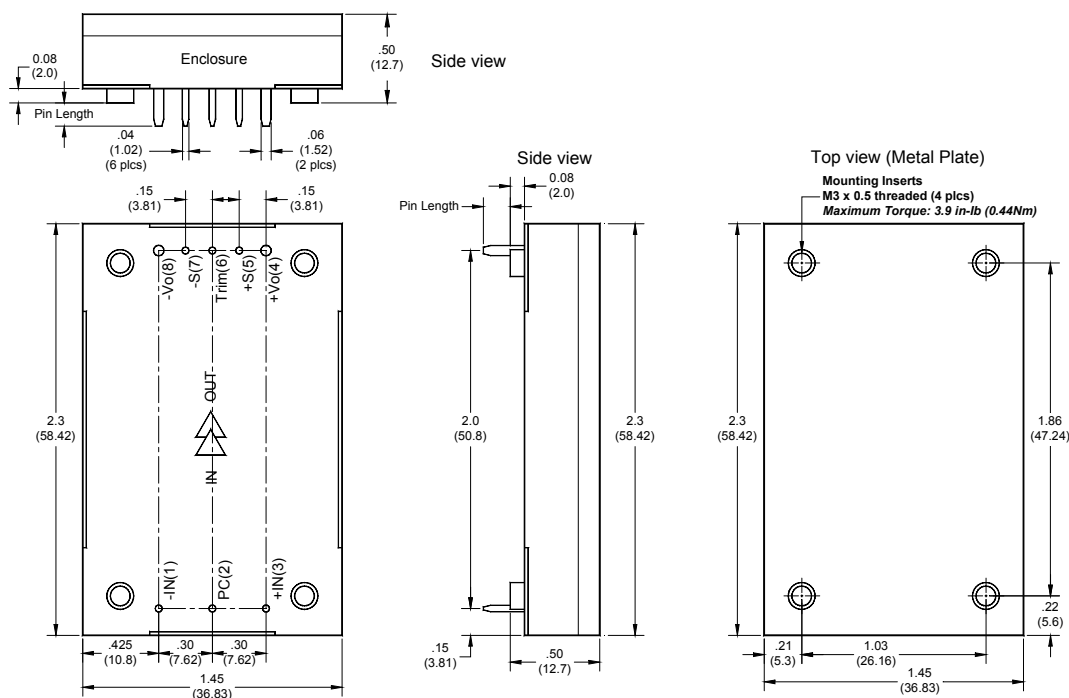
GENERAL SPECIFICATION		
Conversion Efficiency	Typical	See table
Switching Frequency	Typical	330KHz
MTBF	Bellcore	TBD
	TR-332 issue 6	
OTP	Internal	110°C±5°C (T _c)
Weight	3mm Metal-plate	

CONTROL FUNCTIONS		
Remote Control	Logic High	+3.0V to +6.5V
	Logic Low	0V to +1.0V
Input Current of Remote Control Pin		-0.5mA ~ +1.5mA

INPUT SPECIFICATIONS		
Operation Voltage Range		+10V to +36Vdc
Reflected Ripple Current	L _{EXT} = 10uH	20mA Max
Power ON Voltage Ranges		+9.4V to +9.8Vdc
Power OFF Voltage Ranges		+8.4V to +8.9Vdc
Off State Input Current	V _{NOM}	6mA Max
Latch-State Input Current	V _{NOM}	8mA Max
Input Capacitance		22.0uF Max

OUTPUT SPECIFICATIONS		
Voltage Accuracy	Typical	±1.0%
Line Regulation	Full Input Range	±0.3%
Load Regulation	0%~100%	±0.2%
Temperature Drift	-40°C ~100°C	±0.03%/°C
Output Tolerance Band	All Conditions	±4%
Ripple & Noise (20MHz)	Peak-Peak (RMS)	3% (1%) V _o
Over Voltage Protection	V _{NOM} , 10% Load	115~130 %V _o
Output Current Limits	V _{NOM}	108%~125%
Voltage Trim	V _{NOM} , 10% Load	±10%
Input Ripple Rejection (<1KHz)	V _{NOM} , Full Load	-50dB
Step Load (2.5A/uS)	50%~75% Load	±5%V _o /500uS
Start-Up Delay Time	V _{NOM} , Full Load	20mS/250mS

Important Note: General specifications and the performances are related to standard series only, no special customer specification display here except requested items.



Module Mechanical Data

Connection

Designation	Function Description	Pin #
-IN	Negative input	1
PC	Remote control. To turn-on and turn-off output.	2
+IN	Positive input	3
+Vo	Positive output	4
+S	Positive remote sense	5
TRIM	Output voltage adjust	6
-S	Negative remote sense	7
-Vo	Negative output	8

Dimensions: inches (mm)

Tolerances: .xx±0.02 (.x±0.5)

.xxx±0.01 (.x±0.25)

Weight:

Base plate: Aluminum alloy with anode oxide

Mounting inserts: Iron alloy with Nickel plated
[Maximum Torque: 3.9 in-ibs. (0.44N-m)]

Pin material: Copper alloy or Brass

Pin plating: Golden over Nickel

Referenced EMC Circuit:

The tested curve and referenced EMC circuit.

TBD	TBD
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Important Note: General specifications and the performances are related to standard series only, no special customer specification display here except requested items.

中国代理 MLDZ

珠海市明龙电子有限公司 Tel:0756-2219836 http://www.mldz.com.cn/ E-mail:mldzcx@126.com