

120W, 60A Non-isolated SMT Point of Load with PMBus

Features

- ◆ Only 1.0 in² Board Space
- ◆ PMBus Compliant (Read & Write)
- ◆ Surface Mountable
- ◆ Digital Adaptive Control
- ◆ Parallel Operation with Current Sharing
- ◆ Configurable Sequence & Fault Management



Key Market Segments & Applications



Specifications			
Model		iJB12	
DC Output Voltage	V	0.6 - 2.0V	
DC Input Voltage	V	8 - 14V	
Efficiency	%	85 - 93%	
Output Voltage Tolerance	%	±1.2	
Line Regulation	mV	4 (Typical)	
Load Regulation	mV	4 (Typical)	
External Load Capacitance	uF	1000 - 5000	
Output Ripple and Noise	mVpp	20	
Overcurrent Protection (Typ)	A	65A	
Remote On / Off	-	Negative Logic or Positive Logic (See model selector)	
Remote Sense	-	Yes	
Power Good	-	Yes	
Operating Temp	°C	-40 to 120 (see thermal data on website)	
Storage Temperature	°C	-55 to 125	
Safety Agency Approvals	-	Pending	
Weight	g / oz	12.2g / 0.43 oz	
Size (LxWxH)	mm / in.	26.8 x 24.08 x 9.68 (1.05 x 0.95 x 0.381")	
Warranty	yrs	3 years	

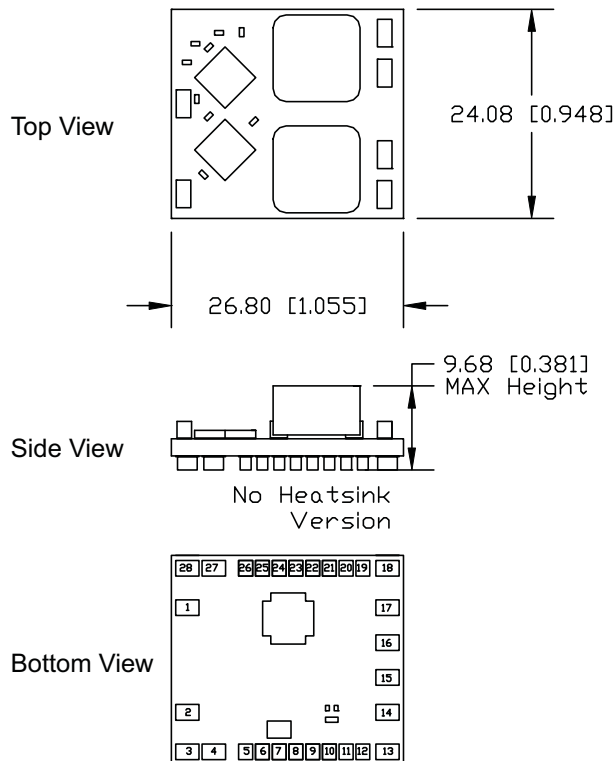
Model Selector

Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Remote On/Off	OCP/OVP Recovery
iJB12060A006V-001-R (1)	8 - 14	60	0.6 - 2.0	Negative	Automatic
iJB12060A006V-002-R	8 - 14	60	0.6 - 2.0	Positive	Automatic
iJB12060A006V-003-R	8 - 14	60	0.6 - 2.0	Negative	Automatic

(1) Standard Transient Response.

Preferred Model

Outline Drawing



Pinout

PIN	Function	PIN	Function
1	+V Input	15	+V Output
2	+V Input	16	+V Output
3	Power Ground (0V)	17	+V Output
4	Power Ground (0V)	18	Power Ground (0V)
5	Signal Ground (0V)	19	PMBus Clock
6	Not Connected	20	PMBus Data
7	Output Trim	21	PMBus Alarm
8	PMBus Address	22	Remote On/Off
9	Not Connected	23	Fault Mgmt
10	Set Parallel Operation (PSET)	24	Power Good
11	+ Remote Sense	25	Current Share
12	- Remote Sense	26	Synchronize
13	Power Ground (0V)	27	Power Ground (0V)
14	+V Output	28	Power Ground (0V)

Evaluation Board

Model	Description
iJBEB2	Evaluation board containing two iJB12060A007V-001-R power modules, a USB to PMBus Dongle Board, cables and CD with TDK Smart Power Module Interface GUI

Other Industrial Products

CC-E	1.5 - 30W 5, 12, 24 or 48V input isolated DC-DC converters
PX	10 - 60W 12, 24 or 48V input isolated DC-DC converters
iAF, iBF, iCF, iCG	3 - 20A DOSA2 non isolated DC-DC converters
iQE, iQL, iQG	96 - 400W Quarter bricks
iEH	300W Eighth brick

For Additional Information, please visit
us.tdk-lambda.com/lp/products/ijb-series.htm



Typical Application Circuit

