Industrial Test Comm Broadcast

60A Non-isolated SMT Point of Load with PMBus™

Features	Benefits
• Only 1.0 in² Board Space	• Less Board Area
• PMBus™ Compliant (Read & Write)	• Configurable Sequence & Fault Management
• Surface Mountable	• No Hand Operation
• Digital Adaptive Control	• Stability with Various Output Impedance
• Parallel Operation with Current Sharing	• Address High Current Applications

Specification

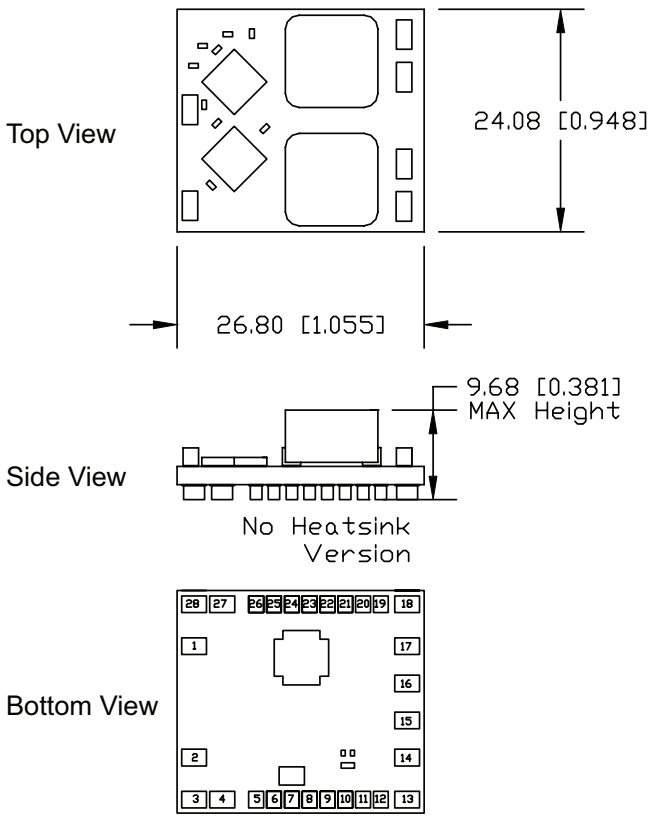
Model		iJB12
DC Output Voltage	V	0.6 - 2.0V
DC Input Voltage	V	8 - 14V
Efficiency	%	85 - 93%
Output Voltage Tolerance	%	±1.2
Line Regulation	mV	4 (Typical)
Load Regulation	mV	4 (Typical)
External Load Capacitance	uF	1000 - 5000
Output Ripple and Noise	mVpp	20
Overcurrent Protection (Typ)	A	65A - Autorecovery
Remote On / Off	-	Negative Logic or Positive Logic (See model selector)
Remote Sense	-	Yes
Power Good	-	Yes
Operating Temp	°C	-40 °C to 120 °C (see thermal data on website)
Storage Temperature	°C	-55 °C to 125 °C
Safety Agency Approvals	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
Weight	gms	12.2g
Size (LxWxH)	mm	26.8 x 24.08 x 9.68
Warranty	yrs	3

Model Selector

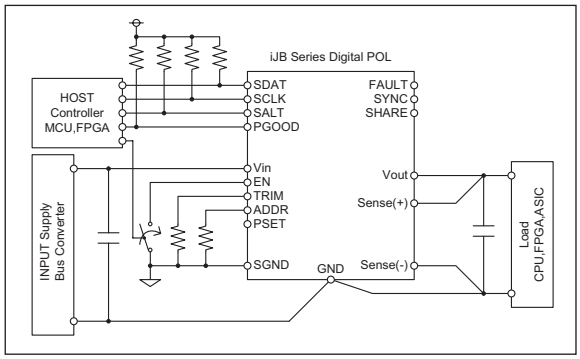
Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Remote On/Off	OCP/OVP Recovery
iJB12060A006V-001-R (1)	8 - 14	60	0.6 - 2.0	Negative	Automatic
iJB12060A006V-002-R	8 - 14	60	0.6 - 2.0	Positive	Automatic
iJB12060A006V-003-R	8 - 14	60	0.6 - 2.0	Negative	Automatic

Note: (1) Standard Transient Response

Outline Drawing iJB Series



Typical Application Circuit iJB Series



Pin Assignment

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	Do not connect	20	PMBus Data
7	Output Trim	21	PMBus Alarm
8	PMBus Address	22	Remote On/Off
9	Do not connect	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)

TDK·Lambda

TDK-Lambda France SAS
3 Avenue du Canada
Parc Technopolis
Bâtiment Sigma
91940 les Ulis
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.emea.lambda.tdk.com/fr

Italy Sales Office
Via Giacomo Matteotti 62
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.emea.lambda.tdk.com/it

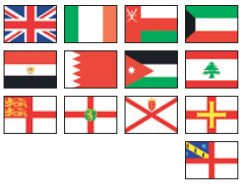
Netherlands
info@nl.tdk-lambda.com
www.emea.lambda.tdk.com/nl

TDK-Lambda Germany GmbH
Karl-Bold-Strasse 40
77855 Achern
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.emea.lambda.tdk.com/de

Austria Sales Office
Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info@at.tdk-lambda.com
www.emea.lambda.tdk.com/at

Switzerland Sales Office
Eichtalstrasse 55
8634 Hombrechtikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.emea.lambda.tdk.com/ch

Nordic Sales Office
Haderslevvej 36B
DK-6000 Kolding
Denmark
Tel: +45 8853 8086
info@dk.tdk-lambda.com
www.emea.lambda.tdk.com/dk



TDK-Lambda UK Ltd.
Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
info@uk.tdk-lambda.com
www.emea.lambda.tdk.com/uk

TDK-Lambda Ltd.
1 Alexander Yanai
Segula
Petah-Tikva
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.emea.lambda.tdk.com/il

C.I.S.
Commercial Support:
Tel: +7 (495) 665 2627
Technical Support:
Tel: +7 (812) 658 0463
info@tdk-lambda.ru
www.emea.lambda.tdk.com/ru

Local Distribution

www.emea.lambda.tdk.com