

150W, 100A Non-isolated SMT Point of Load with PMBus™

Features

- ◆ Only 1.5 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		iJC
DC Output Voltage	V	0.6 - 1.5V
DC Output Power (max)	W	150W
DC Input Voltage	V	8 - 14V
Efficiency	%	86.5 - 91.5%
Output Voltage Tolerance	%	±1.5%
Line Regulation	mV	8 (Typical)
Load Regulation	mV	8 (Typical)
External Load Capacitance	uF	1000 - 5000
Output Ripple and Noise	mVpp	15
Overcurrent Protection	A	>105A
Remote On / Off	-	Negative Logic or Positive Logic (See model selector)
Remote Sense	-	Yes
Operating Temperature	°C	-40 to 120 (see thermal data on website)
Storage Temperature	°C	-55 to 125
Safety Agency Certifications	-	IEC/EN/UL/CSA 60950-1, CE Mark
Weight	g / oz	20g / 0.7 oz
Size (LxWxH)	mm / in.	28.0 x 35.0 x 10.0mm / 1.10 x 1.37 x 0.39"
Warranty	yrs	3 years

PRELIMINARY

Model Selector

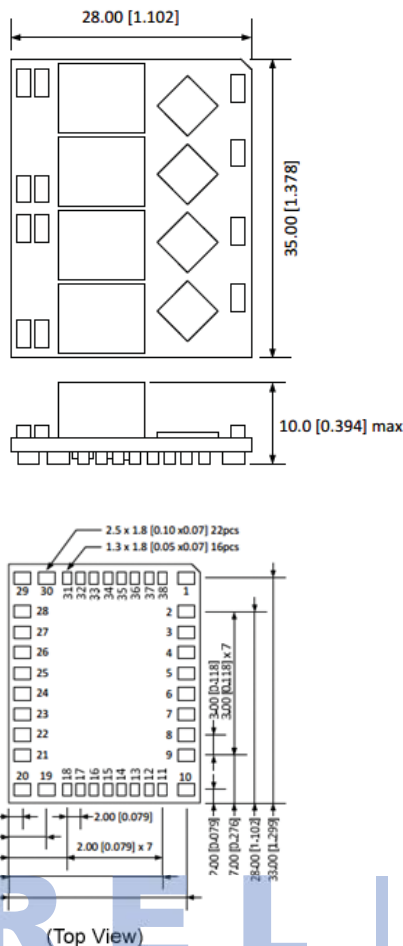
Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Remote On/Off
iJC12100A006V-002-R	8 - 14	100	0.6 - 1.5	Positive
iJC12100A006V-003-R	8 - 14	100	0.6 - 1.5	Negative

Preferred

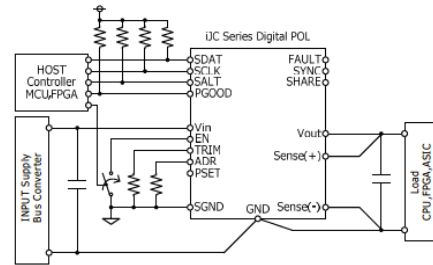
Pinout

PIN	Function	PIN	Function	PIN	Function	PIN	Function
1	Power Ground (0V)	11	Signal Ground (0V)	21	+V Output	31	PMBus Clock
2	Power Ground (0V)	12	Not Connected	22	+V Output	32	PMBus Data
3	+V Input	13	Output Trim	23	+V Output	33	PMBus Alert / Fault
4	+V Input	14	PMBus Address	24	Power Ground (0V)	34	Remote On/Off
5	Power Ground (0V)	15	Not Connected	25	Power Ground (0V)	35	Fault Mgmt
6	Power Ground (0V)	16	Set Parallel Operation (PSET)	26	+V Output	36	Power Good
7	+V Input	17	+ Remote Sense	27	+V Output	37	Current Share
8	+V Input	18	- Remote Sense	28	+V Output	38	Synchronize
9	Power Ground (0V)	19	Power Ground (0V)	29	Power Ground (0V)		
10	Power Ground (0V)	20	Power Ground (0V)	30	Power Ground (0V)		

Outline Drawings



Typical Application Circuit



Evaluation Board

Evaluation kit part #	Contents
iJC100A-003-EVKIT-S1	Evaluation board with one piece of iJC12100A006V-003-R PMBus Dongle Board & USB cable CD ROM User manual available at iJx series technical file in our website

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
iJA, iJB, iJC	35 - 100A non isolated DC-DC converters with PMBus
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

