



Data Sheet

BatMod™

Battery Charger Current Source Modules



Features

- RoHS compliant (VE versions)
- Programmable output current
- Booster versions available
- Size: 4.6" x 2.4" x 0.5"
(116,8 x 61,0 x 12,7 mm)
- UL, CSA, TÜV
- Compatible with all major battery types
- Inputs: 48, 150, 300 Vdc
- Outputs: 12, 24, 48 Vdc Nominal
- Analog current monitor
- Analog overvoltage adjust
- CE Marked

Product Highlights

The BatMod combines Vicor's industry standard package with the flexibility of a power converter whose output voltage and output current may be independently set. BatMod's allow the user to independently program a constant output current and a maximum float voltage. The float voltage is the point at which the BatMod transitions from constant current to constant voltage. These features make the BatMod an ideal candidate for battery charging and other applications which require a controlled current source.

The BatMod is also available in booster versions that enable the designer to create systems capable of multiple kilowatts of output power.

With its wide range of input options, the BatMod is compatible with all major battery types. This new current output module finds application in systems where easily programmable current is of primary importance.

Consult factory for availability of input/output voltage ranges not shown.

Specifications

(typical $T_{BP} = 25^{\circ}\text{C}$, nominal line, 75% load, unless otherwise specified)

Parameter	Rating	Notes
Nominal input voltage	48 Vdc, 150 Vdc, 300 Vdc	42 – 60 V, 100 – 200 V, 200 – 400 V
Output current	0 – 14.5 A	12 V battery system
(Refer to safe operating curves on page 2)	0 – 7.25 A	24 V battery system
	0 – 3.6 A	48 V battery system
Current control input	1 – 5 V	Zero to max. current
Current monitor output	1 – 5 V	Zero to full load
Voltage control input	0 – 2.5 V	Zero to FS output
Output voltage setpoint	15 V, 30 V, 60 V $\pm 1\%$	12 V, 24 V, 48 V
Trimmable +10%, -25%		Output Respectively
Dynamic characteristics	V-Mode: 300 μsec typ. I-Mode: 250 μsec typ.	V _{NOM} for 50 – 100% load changes
Dielectric withstand		
Input to output	3,000 V _{RMS}	
Output to baseplate	500 V _{RMS}	
Input to baseplate	1,500 V _{RMS}	

Packaging Options

SlimMods™, high power density, flangeless packages and FinMods™, featuring integral finned heatsinks.

SlimMod: Option suffix: - S

Example:

VX - XXX - XU - BM - S

FinMod: Option suffix: - F1, - F2, - F3 and - F4

Examples:

VX - XXX - XU - BM - F1, 0.25"H longitudinal fin

VX - XXX - XU - BM - F2, 0.5"H longitudinal fin

VX - XXX - XU - BM - F3, 0.25"H transverse fin

VX - XXX - XU - BM - F4, 0.5"H transverse fin

Part Numbering

(typical model: input 300 Vdc, output 12 Vdc at 200 W)

V I - 2 6 1 - E U - B M

* E = RoHS

Module	Input Voltage	Output Voltage	Product Grade Temperatures (°C)
2 = Driver B = Booster	Nominal Range	Nominal Range	Grade Operating Storage
	3 = 48 V 42 – 60 V	1 = 12 V 11.25 – 16.5 V	E = -10 to +85 -20 to +100
	5 = 150 V 100 – 200 V	3 = 24 V ¹ 22.5 – 33.0 V	C = -25 to +85 -40 to +100
	6 = 300 V 200 – 400 V	4 = 48 V 45.0 – 66.0 V	I = -40 to +85 -55 to +100
		¹ Available in 300 V input only	M = -55 to +85 -65 to +100

Warranty

Vicor products are guaranteed for two years from date of shipment against defects in material or workmanship when in normal use and service. This warranty does not extend to products subjected to misuse, accident, or improper application or maintenance. Vicor shall not be liable for collateral or consequential damage. This warranty is extended to the original purchaser only.

EXCEPT FOR THE FOREGOING EXPRESS WARRANTY, VICOR MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Vicor will repair or replace defective products in accordance with its own best judgement. For service under this warranty, the buyer must contact Vicor to obtain a Return Material Authorization (RMA) number and shipping instructions. Products returned without prior authorization will be returned to the buyer. The buyer will pay all charges incurred in returning the product to the factory. Vicor will pay all reshipment charges if the product was defective within the terms of this warranty.

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Vicor's comprehensive line of power solutions includes high density AC-DC and DC-DC modules and accessory components, fully configurable AC-DC and DC-DC power supplies, and complete custom power systems.

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Specifications are subject to change without notice.

Intellectual Property Notice

Vicor and its subsidiaries own Intellectual Property (including issued U.S. and Foreign Patents and pending patent applications) relating to the products described in this data sheet. Interested parties should contact Vicor's Intellectual Property Department.

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Product Change Notice

Product Discontinuance & Last Time Buy

PCN #: BE140602

Date: June 2, 2014

Re: IP / IE Family of DC-DC Converter Modules — End-of-Life.

To Our Valued Customers:

We appreciate your use of Vicor IP- and IE- Brick family of products. The purpose of this notice is to inform you that the product line is being discontinued, and to provide options should there be a continued need for product.

PCN Type:

Notice of product discontinuance requiring a Last Time Buy and/or migration to equivalent alternative models.

Product(s) Affected:

All “IP-xxx” and “IE-xxx” DC-DC Converter Modules.

Part numbers begin with the designations: “IP-” and “IE-”.

A complete listing of affected models is contained within Tables 2, below.

Proposed Changes:

Due to low manufacturing volumes, the product line has become uneconomical to manufacture and support. A last-time-buy period is defined below. In addition, alternative devices from the VE and VI Brick Families are suggested for most models. These VE and VI Bricks are true drop-in replacements for the original; being both functionally and electrically identical.

Customer Impact:

Product Obsolescence: Customers may place last time buy orders immediately and up through November 28, 2014. Final shipments must be accepted up to or shortly after the December 31, 2014 Last-Time-Ship date. However, the suggested drop-in replacement parts from our VE and VI Brick families are available now and with continued availability after the LTS date – they are not being discontinued. The Vicor Applications Engineering team can assist with information regarding these models.

Table 1: Product Obsolescence Timeline

Model Family	Description	LTB Date	LTS Date
IE & IP	EOL – 180 days	11/28/2014	12/31/2014 [APPROXIMATELY]



Reliability / Qualification Summary:

To clarify, there is no change being made to the original IE or IP models.

The suggested VE and VI Brick replacement parts have been fully qualified per Vicor's strict quality procedures. They are built on the same manufacturing line as the original IE & IP models they replace and have been in volume production for over 15 years.

Notes:

Effective as of the date of this PCN, new order terms are *"no cancellations - no returns"*.

Datasheets for the suggested VE and VI Brick replacement modules are located at this link:

<http://www.vicorpower.com/dc-dc-converters-board-mount/vi-200-and-vi-j00-dc-dc-converte>

Table 2: List of affected models – Obsolescence in 180 days

Model P/N	Description	Suggested Replacement	Model P/N	Description	Suggested Replacement
IE-200-CX	12V/5V 75W SMD ROHS	VE-200-CX	IP-214-CY-05	24V/48V 50W	Consult factory
IE-200-CY	12V/5V 50W SMD ROHS	VE-200-CY	IP-220-CW	36V/5V 100W SMD	VI-220-CW
IE-201-CX	12V/12V 75W SMD ROHS	VE-201-CX	IP-220-CX	36V/5V 75W SMD	VI-220-CX
IE-201-CY	12V/12V 50W SMD ROHS	VE-201-CY	IP-220-CY	36V/5V 50W SMD	VI-220-CY
IE-202-CX	12V/15V 75W SMD ROHS	VE-202-CX	IP-221-CW	36V/12V 100W SMD	VI-221-CW
IE-202-CY	12V/15V 50W SMD ROHS	VE-202-CY	IP-221-CX	36V/12V 75W SMD	VI-221-CX
IE-203-CX	12V/24V 75W SMD ROHS	VE-203-CX	IP-221-CY	36V/12V 50W SMD	VI-221-CY
IE-203-CY	12V/24V 50W SMD ROHS	VE-203-CY	IP-221-CY-01	36V/12V 50W	Consult factory
IE-204-CX	12V/48V 75W SMD ROHS	VE-204-CX	IP-222-CW	36V/15V 100W SM	VI-222-CW
IE-204-CY	12V/48V 50W SMD ROHS	VE-204-CY	IP-222-CY	36V/15V 50W SMD	VI-222-CY
IE-210-CV	24V/5V 150W SMD ROHS	VE-210-CV	IP-224-CW	36V/48V 100W SMD	VI-224-CW
IE-210-CW	24V/5V 100W SMD ROHS	VE-210-CW	IP-224-CX	36V/48V 75W SMD	VI-224-CX
IE-210-CX	24V/5V 75W SMD ROHS	VE-210-CX	IP-224-CY	36V/48V 50W SMD	Consult factory
IE-210-CY	24V/5V 50W SMD ROHS	VE-210-CY	IP-230-01	(IP-230-CV-TR1) 48V/5V 150W	Consult factory
IE-211-CV	24V/12V 150W SM ROHS	VE-211-CV	IP-230-12	48V/5.7V 150W	Consult factory
IE-211-CW	24V/12V 100W SM ROHS	VE-211-CW	IP-230-CU	48V/5V 200W SMD	VI-230-CU
IE-211-CX	24V/12V 75W SMD ROHS	VE-211-CX	IP-230-CV	48V/5V 150W SMD	VI-230-CV
IE-211-CY	24V/12V 50W SMD ROHS	VE-211-CY	IP-230-CW	48V/5V 100W SMD	VI-230-CW
IE-212-CV	24V/15V 150W SM ROHS	VE-212-CV	IP-230-CX	48V/5V 75W	VI-230-CX
IE-212-CW	24V/15V 100W SM ROHS	VE-212-CW	IP-230-CY	48V/5V 50W SMD	VI-230-CY
IE-212-CX	24V/15V 75W SMD ROHS	VE-212-CX	IP-231-05	48V/11V SMD	Consult factory
IE-212-CY	24V/15V 50W SMD ROHS	VE-212-CY	IP-231-06	48V/11V	Consult factory
IE-213-CW	24V/24V 100W SM ROHS	VE-213-CW	IP-231-07	48V/12V 360W SMD	Consult factory
IE-213-CX	24V/24V 75W SMD ROHS	VE-213-CX	IP-231-CU	48V/12V 200W SM	VI-231-CU
IE-213-CY	24V/24V 50W SMD ROHS	VE-213-CY	IP-231-CV	48V/12V 150W SMD	VI-231-CV
IE-214-CV	24V/48V 150W SM ROHS	VE-214-CV	IP-231-CW	48V/12V 100W SM	VI-231-CW
IE-214-CW	24V/48V 100W SM ROHS	VE-214-CW	IP-231-CX	48V/12V 75W SMD	VI-231-CX
IE-214-CX	24V/48V 75W SMD ROHS	VE-214-CX	IP-231-CY	48V/12V 50W SMD	VI-231-CY



IE-214-CY	24V/48V 50W SMD ROHS	VE-214-CY	IP-232-08	48V/15V 300W SMD	Consult factory
IE-220-CW	36V/5V 100W SMD ROHS	VE-220-CW	IP-232-10	(IP-232-CU02)	Consult factory
IE-220-CX	36V/5V 75W SMD ROHS	VE-220-CX	IP-232-CU	48V/15V 200W SM	VI-232-CU
IE-220-CY	36V/5V 50W SMD ROHS	VE-220-CY	IP-232-CU-11	48V/15V 200W	Consult factory
IE-221-CW	36V/12V 100W SM ROHS	VE-221-CW	IP-232-CV	48V/15V 150W SMD	VI-232-CV
IE-221-CX	36V/12V 75W SMD ROHS	VE-221-CX	IP-232-CW	48V/15V 100W SM	VI-232-CW
IE-221-CY	36V/12V 50W SMD ROHS	VE-221-CY	IP-232-CY	48V/15V 50W SMD	VI-232-CY
IE-222-CW	36V/15V 100W SM ROHS	VE-222-CW	IP-233-14	48V/26V 195W SM	Consult factory
IE-222-CY	36V/15V 50W SMD ROHS	VE-222-CY	IP-233-CU	48V/48V 200W SM	VI-233-CU
IE-224-CW	36V/48V 100W SM ROHS	VE-224-CW	IP-233-CV	48V/24V 150W SM	VI-233-CV
IE-224-CX	36V/48V 75W SMD ROHS	VE-224-CX	IP-233-CW	48V/24V 100W SM	VI-233-CW
IE-224-CY	36V/48V 50W SMD ROHS	Consult factory	IP-233-CX	48V/24V 75W SMD	VI-233-CX
IE-230-CU	48V/5V 200W SMD ROHS	VE-230-CU	IP-234-CU	48V/48V 200W SM	VI-234-CU
IE-230-CV	48V/5V 150W SMD ROHS	VE-230-CV	IP-234-CV	48V/48V 150W SM	VI-234-CV
IE-230-CW	48V/5V 100W SMD ROHS	VE-230-CW	IP-234-CW	48V/48V 100W SM	Consult factory
IE-230-CX	48V/5V 75W SMD ROHS	VE-230-CX	IP-234-CX	48V/48V 75W SMD	Consult factory
IE-230-CY	48V/5V 50W SMD ROHS	VE-230-CY	IP-23L-04	48V/28V 200W SM	Consult factory
IE-231-CU	48V/12V 200W SM ROHS	VE-231-CU	IP-23L-CU	48V/28V 200W SM	VI-23L-CU
IE-231-CV	48V/12V 150W SM ROHS	VE-231-CV	IP-23M-CU	48V/10V 200W SM	VI-23M-CU
IE-231-CW	48V/12V 100W SM ROHS	VE-231-CW	IP-23W-CU	48V/5.5V 36.3A	Consult factory
IE-231-CX	48V/12V 75W SMD ROHS	VE-231-CX	IP-23Y-CU	48V/3.3V 40A	VI-23Y-CU
IE-231-CY	48V/12V 50W SMD ROHS	VE-231-CY	IP-23Z-CU	48V/2V 200	VI-23Z-CU
IE-232-CU	48V/15V 200W SM ROHS	Consult factory	IP-240-02	100V/5V 100W	Consult factory
IE-232-CV	48V/15V 150W SMD ROHS	VE-232-CV	IP-240-04	100V/6V 50W SMD	Consult factory
IE-232-CW	48V/15V 100W SM ROHS	VE-232-CW	IP-240-ZW	100V/5V 100W SMD	Consult factory
IE-232-CY	48V/15V 50W SMD ROHS	VE-232-CY	IP-243-03	100V/24V 100W S	Consult factory
IE-233-CU	48V/48V 200W SM ROHS	VE-233-CU	IP-244-01	72V/48V 120W SM	Consult factory
IE-233-CV	48V/24V 150W SM ROHS	VE-233-CV	IP-244-CV01	72V/48V 150W SMD	Contact factory
IE-233-CW	48V/24V 100W SM ROHS	VE-233-CW	IP-250-01	135V/6V 150W	Consult factory
IE-233-CX	48V/24V 75W SMD ROHS	VE-233-CX	IP-250-0101	135V/6V 150W SMD	Contact factory
IE-234-CU	48V/48V 200W SM ROHS	VE-234-CU	IP-250-02	(IP-250-CY-05) 110V/5V 25W	Consult factory
IE-234-CV	48V/48V 150W SM ROHS	VE-234-CV	IP-250-03	150V/6V 50W SMD	Consult factory
IE-234-CW	48V/48V 100W SM ROHS	Consult factory	IP-250-06	(IP-250-CV-TR)	Consult factory
IE-234-CX	48V/48V 75W SMD ROHS	Consult factory	IP-250-CV	150V/5V 150W SMD	VI-250-CV
IE-23L-CU	48V/28V 200W SM ROHS	VE-23L-CU	IP-250-CW	150V/5V 100W	VI-250-CW
IE-23M-CU	48V/10V 200W SM ROHS	VE-23M-CU	IP-250-CX	150V/5V 75W SMD	VI-250-CX
IE-23W-CU	48V/5.5V 36.3A ROHS	Consult factory	IP-250-CX-13	150V/5V 75W	Consult factory
IE-23Y-CU	48V/3.3V 40A ROHS	VE-23Y-CU	IP-250-CY	150V/5V 50W	VI-250-CY
IE-23Z-CU	48V/2V 40A SMD ROHS	VE-23Z-CU	IP-250-CY-04	(IP-250-CY__LT) 150V/5V 50W	Consult factory
IE-250-CV	150V/5V 150W ROHS	VE-250-CV	IP-250-CY-16	(IP-250-CY) 150V/5V 50W SMD	Consult factory
IE-250-CW	150V/5V 100W ROHS	VE-250-CW	IP-251-07	(IP-251-CV-TR)	Consult factory
IE-250-CX	150V/5V 75W SMD ROHS	VE-250-CX	IP-251-CU	150V/12V 200W	VI-251-CU



IE-250-CY	150V/5V 50W SMD ROHS	VE-250-CY	IP-251-CV	150V/12V 150W S	VI-251-CV
IE-251-CU	150V/12V 200W S ROHS	VE-251-CU	IP-251-CW	150V/12V 100W	VI-251-CW
IE-251-CV	150V/12V 150W S ROHS	VE-251-CV	IP-251-CX	150V/12V 75W SM	VI-251-CX
IE-251-CW	150V/12V 100W S ROHS	VE-251-CW	IP-251-CY	150V/12V 50W SMD	VI-251-CY
IE-251-CX	150V/12V 75W SM ROHS	VE-251-CX	IP-251-CY-05	150V/12V 50W	Consult factory
IE-251-CY	150V/12V 50W SM ROHS	VE-251-CY	IP-252-08	(IP-252-CW-TR)	Consult factory
IE-252-CV	150V/15V 150W S ROHS	VE-252-CV	IP-252-CV	150V/15V 150W SMD	VI-252-CV
IE-252-CW	150V/15V 100W S ROHS	VE-252-CW	IP-252-CW	150V/15V 100W S	VI-252-CW
IE-253-CU	150V/24V 200W S ROHS	VE-253-CU	IP-252-CW-15	150V/15V 100	Consult factory
IE-253-CV	150V/24V 150W S ROHS	VE-253-CV	IP-253-09	(IP-253-CY-TR)	Consult factory
IE-253-CW	150V/24V 100W S ROHS	VE-253-CW	IP-253-10	(IP-253-CU-TR)	Consult factory
IE-253-CY	150V/24V 50W SM ROHS	VE-253-CY	IP-253-CU	150V/24V 200W	VI-253-CU
IE-254-CU	150V/48V 200W S ROHS	VE-254-CU	IP-253-CV	150V/24V 150W	VI-253-CV
IE-254-CV	150V/48V 150W S ROHS	VE-254-CV	IP-253-CW	150V/24V 100W S	VI-253-CW
IE-254-CW	150V 48V 100W S ROHS	VE-254-CW	IP-253-CY	150V/24V 50W SMD	VI-253-CY
IE-254-CX	150V/48V 75W SM ROHS	VE-254-CX	IP-253-CY-14	150V/24V 50W	Consult factory
IE-260-01	(IE-260-CV10) 300V/6V 150W	Consult factory	IP-254-11	(IP-254-CU-TR)	Consult factory
IE-260-CU	300V/ 5V 200W ROHS	VE-260-CU	IP-254-CU	150V/48V 200W	VI-254-CU
IE-260-CV	300V/ 5V 150W ROHS	VE-260-CV	IP-254-CV	150V/48V 150W S	VI-254-CV
IE-260-CW	300V/ 5V 100W ROHS	VE-260-CW	IP-254-CV-12	150V/48V 150W	Consult factory
IE-260-CX	300V/5V 75W SMD ROHS	VE-260-CX	IP-254-CW	150V/48V 150W	VI-254-CW
IE-260-CY	300V/5V 50W ROHS	VE-260-CY	IP-254-CX	150V/48V 75W SM	VI-254-CX
IE-261-CU	300V/12V 200W S ROHS	VE-261-CU	IP-260-01	(IP-260-CV10) 300V/6V 150W	Consult factory
IE-261-CV	300V/12V 150W S ROHS	VE-261-CV	IP-260-03	(IP-260-CU01) 300V/5V 200W	Consult factory
IE-261-CW	300V/21V 100W ROHS	VE-261-CW	IP-260-07	(IP-260-CV-TR)	Consult factory
IE-261-CX	300V/12V 75W S ROHS	VE-261-CX	IP-260-09	(IP-260-CW-TR)	Consult factory
IE-261-CY	300V/12V 50W S ROHS	VE-261-CY	IP-260-CU	300V/5V 200W	VI-260-CU
IE-262-CU	300V/15V 200W S ROHS	VE-262-CU	IP-260-CV	300V/5V 150W	VI-260-CV
IE-262-CV	300V/15V 150W S ROHS	VE-262-CV	IP-260-CW	300V/ 5V 100W	VI-260-CW
IE-262-CW	300V/15V 100W S ROHS	VE-262-CW	IP-260-CX	300V/5V 75W SMD	VI-260-CX
IE-262-CX	300V/15V 75W S ROHS	VE-262-CX	IP-260-CY	300V/5V 50W SMD	VI-260-CY
IE-262-CY	300V/15V 50W S ROHS	VE-262-CY	IP-261-08	(IP-261-CW-TR)	Consult factory
IE-263-CU	300V/24V 200W S ROHS	VE-263-CU	IP-261-10	(IP-261-CU-TR)	Consult factory
IE-263-CV	300V/24V 150W S ROHS	VE-263-CV	IP-261-CU	300V/12V 200W	VI-261-CU
IE-263-CW	300V/24V 100W S ROHS	VE-263-CW	IP-261-CU-13	300V/12V 200W	Consult factory
IE-263-CX	300V/24V 75W S ROHS	VE-263-CX	IP-261-CV	300V/12V 150W S	VI-261-CV
IE-263-CY	300V/24V 50W S ROHS	VE-263-CY	IP-261-CW	300V/12V 100W S	VI-261-CW
IE-264-CU	300V/48V 200W S ROHS	VE-264-CU	IP-261-CW-14	300V/12V 100W	Consult factory
IE-264-CV	300V/48V 150W S ROHS	VE-264-CV	IP-261-CX	300V/12V 75W S	VI-261-CX
IE-264-CW	300V/48V 100W S ROHS	VE-264-CW	IP-261-CY	300V/12V 50W S	VI-261-CY
IE-264-CX	300V/48V 75W S ROHS	VE-264-CX	IP-262-CU	300V/15V 200W	VI-262-CU
IE-264-CY	300V/48V 50W S ROHS	VE-264-CY	IP-262-CV	300V/15V 150W	VI-262-CV



IE-26L-CU	300V/28V 200W S ROHS	VE-26L-CU	IP-262-CW	300V/15V 100W S	VI-262-CW
IE-26N-CU	300V/18.5V 200W ROHS	VE-26N-CU	IP-262-CX	300V/15V 75W S	VI-262-CX
IE-26W-CU	300V/5.5V 200W ROHS	VE-26W-CU	IP-262-CY	300V/15V 50W S	VI-262-CY
IE-26W-CV	300V/5.5V 150W ROHS	VE-26W-CV	IP-263-05	(IP-263-CU05) 300V/28V HINO	Consult factory
IE-26W-CX	300V/5.5V 75W ROHS	VE-26W-CX	IP-263-CU	300V/24V 200W	VI-263-CU
IE-26Y-CU	300V/3.3V 40A ROHS	VE-26Y-CU	IP-263-CV	300V/24V 150W S	VI-263-CV
IE-26Y-CX	300V/3.3V 15A ROHS	VE-26Y-CX	IP-263-CW	300V/24V 100W	VI-263-CW
IE-26Z-CU	300V/2V 40A SMD ROHS	VE-26Z-CU	IP-263-CX	300V/24V 75W S	VI-263-CX
IE-273-CW	300V/24V 100W S ROHS	VE-273-CW	IP-263-CY	300V/24V 50W	VI-263-CY
IE-273-CY	300V/24V 50W SM ROHS	VE-273-CY	IP-264-11	(IP-264-CU-TR)	Consult factory
IE-2N0-CV	48V/5V 150W SMD ROHS	VE-2N0-CV	IP-264-20	300V/48V 200W	Consult factory
IE-2N0-CX	48V/5V 50W SMD ROHS	VE-2N0-CX	IP-264-CU	300V/48V 200W	VI-264-CU
IE-2N0-CY	48V/5V 50W SMD ROHS	VE-2N0-CY	IP-264-CV	300V/48V 150W S	VI-264-CV
IE-2N1-CV	48V/12V 150W SM ROHS	VE-2N1-CV	IP-264-CW	300V/48V 100W S	VI-264-CW
IE-2N1-CW	48V/12V 100W SM ROHS	VE-2N1-CW	IP-264-CX	300V/48V 75W S	VI-264-CX
IE-2N1-CY	48V/12V 50W SMD ROHS	VE-2N1-CY	IP-264-CY	300V/48V 50W S	VI-264-CY
IE-2N2-CV	48V/15V 150W SM ROHS	VE-2N2-CV	IP-26L-12	300V/28V 200W	Consult factory
IE-2N3-CV	48V/24V 150W SM ROHS	VE-2N3-CV	IP-26L-15	300V/28V 153W S	Consult factory
IE-2N3-CY	48V/24V 50W SMD ROHS	VE-2N3-CY	IP-26L-CU	300V/28V 200W SMD	VI-26L-CU
IE-2N4-CV	48V/48V 150W SM ROHS	VE-2N4-CV	IP-26N-CU	300V/18.5V 200W	VI-26N-CU
IE-2NL-CV	48V/28V 150W SM ROHS	VE-2NL-CV	IP-26W-CU	300V/5.5V 200W	VI-26W-CU
IE-2T0-CV	100V/5V 150W ROHS	VE-2T0-CV	IP-26W-CV	300V/5.5V 150W	VI-26W-CV
IE-2T0-CW	100V/5V 100W ROHS	VE-2T0-CW	IP-26W-CX	300V/5.5V 75W	VI-26W-CX
IE-2T0-CY	100V/5V 50W SMD ROHS	VE-2T0-CY	IP-26Y-CU	300V/3.3V 40A	VI-26Y-CU
IE-2T1-CW	100V/12V 100W S ROHS	VE-2T1-CW	IP-26Y-CX	300V/3.3V 15A	VI-26Y-CX
IE-2T3-CV	100V/24V 150W S ROHS	VE-2T3-CV	IP-26Z-CU	300V/2V 40A SMD	VI-26Z-CU
IE-2T4-CV	100V/24V 150W S ROHS	VE-2T4-CV	IP-273-CW	300V/24V 100W SMD	VI-273-CW
IE-2W0-CW	24V/5V 100W SMD ROHS	VE-2W0-CW	IP-273-CY	300V/24V 50W SM	VI-273-CY
IE-2W0-CX	24V/5V 75W SMD ROHS	VE-2W0-CX	IP-2N0-CV	48V/5V 150W SMD	VI-2N0-CV
IE-2W0-CY	24V/5V 50W SMD ROHS	VE-2W0-CY	IP-2N0-CX	48V/5V 50W SMD	VI-2N0-CX
IE-2W1-CV	24V/12V 150W SM ROHS	VE-2W1-CV	IP-2N0-CY	48V/5V 50W SMD	VI-2N0-CY
IE-2W1-CW	24V/12V 100W SM ROHS	VE-2W1-CW	IP-2N1-CV	36-76V/12V 150W	VI-2N1-CV
IE-2W1-CX	24V/12V 75W SMD ROHS	VE-2W1-CX	IP-2N1-CW	48V/12V 100W SM	VI-2N1-CW
IE-2W1-CY	24V/12V 50W SMD ROHS	VE-2W1-CY	IP-2N1-CY	48V/12V 50W SMD	VI-2N1-CY
IE-2W3-CV	24V/24V 150W SM ROHS	VE-2W3-CV	IP-2N2-CV	48V/15V 150W SM	VI-2N2-CV
IE-2W3-CY	24V/24V 50W SMD ROHS	VE-2W3-CY	IP-2N3-CV	48V/24V 150W SM	VI-2N3-CV
IE-2W4-CV	24V/48V 150W SM ROHS	VE-2W4-CV	IP-2N3-CY	48V/24V 50W SMD	VI-2N3-CY
IE-2WY-CW	24V/3.3V 20A ROHS	VE-2WY-CW	IP-2N4-CV	48V/48V 150W SM	VI-2N4-CV
IE-B00-CX	12V/5V 75W SMD ROHS	VE-B00-CX	IP-2NL-CV	48V/28V 150W SM	VI-2NL-CV
IE-B00-CY	12V/5V 50W SMD ROHS	VE-B00-CY	IP-2T0-CV	100V/5V 150W	VI-2T0-CV
IE-B01-CX	12V/12V 75W SMD ROHS	VE-B01-CX	IP-2T0-CW	100V/5V 100W	VI-2T0-CW
IE-B02-CX	24V/5V 75W SMD ROHS	VE-B02-CX	IP-2T0-CY	100V/5V 50W SMD	VI-2T0-CY



IE-B02-CY	12V/15V 50W SMD ROHS	VE-B02-CY	IP-2T1-CW	100V/12V 100W S	VI-2T1-CW
IE-B03-CX	12V/24V 75W SMD ROHS	VE-B03-CX	IP-2T3-01	(IP-2T3-01 CV) 100V/24V 150W	Consult factory
IE-B03-CY	12V/24V 50W SMD ROHS	VE-B03-CY	IP-2T3-CV	100V/24V 150W S	VI-2T3-CV
IE-B04-CX	12V/48V 75W SMD ROHS	VE-B04-CX	IP-2T4-CV	100V/24V 150W S	VI-2T4-CV
IE-B04-CY	12V/48V 50W SMD ROHS	VE-B04-CY	IP-2W0-CW	24V/5V 100W SMD	VI-2W0-CW
IE-B10-CV	24V/5V 150W SMD ROHS	VE-B10-CV	IP-2W0-CX	24V/5V 75W SMD	VI-2W0-CX
IE-B10-CW	24V/5V 100W SMD ROHS	VE-B10-CW	IP-2W0-CY	24V/5V 50W SMD	VI-2W0-CY
IE-B11-CV	24V/12V 150W SM ROHS	VE-B11-CV	IP-2W1-CV	24V/12V 150W SM	VI-2W1-CV
IE-B11-CW	24V/12V 100W SM ROHS	VE-B11-CW	IP-2W1-CW	24V/12V 100W SM	VI-2W1-CW
IE-B12-CV	24V/15V 150W SM ROHS	VE-B12-CV	IP-2W1-CX	24V/12V 75W SMD	VI-2W1-CX
IE-B13-CW	24V/24V 100W SM ROHS	VE-B13-CW	IP-2W1-CY	24V/12V 50W SMD	VI-2W1-CY
IE-B14-CV	24V/48V 150W SM ROHS	VE-B14-CV	IP-2W3-CV	24V/24V 150W SMD	VI-2W3-CV
IE-B14-CW	24V/48V 100W SM ROHS	Consult factory	IP-2W3-CY	24V/24V 50W SMD	VI-2W3-CY
IE-B20-CW	36V/5V 100W SMD ROHS	VE-B20-CW	IP-2W4-CV	18-36V/48V 150W	VI-2W4-CV
IE-B20-CX	36V/5V 75W SMD ROHS	VE-B20-CX	IP-2WY-CW	24V/3.3V 20A	VI-2WY-CW
IE-B21-CW	36V/12V 100W SM ROHS	VE-B21-CW	IP-B00-CX	12V/5V 75W SMD	VI-B00-CX
IE-B21-CX	36V/12V 75W SMD ROHS	Consult factory	IP-B00-CY	12V/5V 50W SMD	VI-B00-CY
IE-B22-CW	36V/15V 100W SM ROHS	VE-B22-CW	IP-B01-CX	12V/12V 75W SMD	VI-B01-CX
IE-B24-CW	36V/48V 100W SM ROHS	VE-B24-CW	IP-B02-CX	24V/5V 75W SMD	VI-B02-CX
IE-B24-CX	36V/48V 75W SMD ROHS	VE-B24-CX	IP-B02-CY	12V/15V 50W SMD	VI-B02-CY
IE-B30-CU	48V/5V 200W SMD ROHS	VE-B30-CU	IP-B03-CX	12V/24V 75W SMD	VI-B03-CX
IE-B30-CV	48V/5V 150W SMD ROHS	VE-B30-CV	IP-B03-CY	12V/24V 50W SMD	VI-B03-CY
IE-B30-CW	48V/5V 100W SMD ROHS	VE-B30-CW	IP-B04-CX	12V/48V 75W SMD	VI-B04-CX
IE-B31-CU	48V/12V 200W SM ROHS	VE-B31-CU	IP-B04-CY	12V/48V 50W SMD	VI-B04-CY
IE-B31-CV	48V/12V 150W SM ROHS	VE-B31-CV	IP-B10-CV	24V/5V 150W SMD	VI-B10-CV
IE-B31-CW	48V/12V 100W SM ROHS	Consult factory	IP-B10-CV-03	24V/5V 150W	Consult factory
IE-B32-CU	48V/15V 200W ROHS	Consult factory	IP-B10-CW	24V/5V 100W SMD	VI-B10-CW
IE-B32-CV	48V/15V 150W SM ROHS	VE-B32-CV	IP-B11-CV	24V/12V 150W SM	VI-B11-CV
IE-B32-CW	48V/15V 100W SM ROHS	Consult factory	IP-B11-CW	24V/12V 100W SM	VI-B11-CW
IE-B33-CU	48V/24V 200W SM ROHS	VE-B33-CU	IP-B12-01	24V/14V 150W SM	Consult factory
IE-B33-CV	48V/24V 150W SM ROHS	VE-B33-CV	IP-B12-CV	24V/15V 150W SM	VI-B12-CV
IE-B33-CW	48V/24V 100W SM ROHS	VE-B33-CW	IP-B12-CV-04	24V/15V 150W	Consult factory
IE-B34-CU	48V/48V 200W SM ROHS	VE-B34-CU	IP-B13-CV	24V/24V 150W	VI-B13-CV
IE-B34-CV	48V/48V 150W SM ROHS	VE-B34-CV	IP-B13-CW	24V/24V 100W SM	VI-B13-CW
IE-B34-CW	48V/48V 100W SM ROHS	Consult factory	IP-B14-CV	24V/48V 150W SM	VI-B14-CV
IE-B3L-CU	48V/28V 200W SM ROHS	Consult factory	IP-B14-CV-06	24V/48V 150W	Consult factory
IE-B3M-CU	48V/10V 200W SM ROHS	VE-B3M-CU	IP-B14-CW	24V/48V 100W SM	Consult factory
IE-B3W-CU	48V/5.5V 36.3A ROHS	Consult factory	IP-B20-CW	36V/5V 100W SMD	VI-B20-CW
IE-B3Y-CU	48V/3.3V 132W ROHS	VE-B3Y-CU	IP-B20-CX	36V/5V 75W SMD	VI-B20-CX
IE-B3Z-CU	48V/2V 40A SMD ROHS	VE-B3Z-CU	IP-B21-CW	36V/12V 100W SMD	VI-B21-CW
IE-B50-CV	150V/5V 150W ROHS	VE-B50-CV	IP-B21-CX	36V/12V 75W SMD	Consult factory
IE-B50-CW	150V/5V 100W ROHS	VE-B50-CW	IP-B22-CW	36V/15V 100W SM	VI-B22-CW



IE-B51-CU	150V/12V 200W S ROHS	VE-B51-CU	IP-B24-CW	36V/48V 100W SM	VI-B24-CW
IE-B51-CV	150V/12V 150W S ROHS	VE-B51-CV	IP-B24-CX	36V/48V 75W SMD	VI-B24-CX
IE-B51-CW	150V/12V 100W S ROHS	VE-B51-CW	IP-B30-01	(IP-B30-CV-TR1) 48V/5V 150W	Consult factory
IE-B52-CV	150V/15V 150W S ROHS	VE-B52-CV	IP-B30-CU	48V/5V 200W SMD	VI-B30-CU
IE-B52-CW	150V/15V 100W S ROHS	VE-B52-CW	IP-B30-CV	48V/5V 150W SMD	VI-B30-CV
IE-B53-CU	150V/24V 200W S ROHS	VE-B53-CU	IP-B30-CW	48V/5V 100W SMD	VI-B30-CW
IE-B53-CV	150V/24V 150W S ROHS	VE-B53-CV	IP-B31-CU	48V/12V 200W SM	VI-B31-CU
IE-B53-CW	150V/24V 100W S ROHS	VE-B53-CW	IP-B31-CV	48V/12V 150W SM	VI-B31-CV
IE-B54-CU	150V/48V 200W S ROHS	VE-B54-CU	IP-B31-CW	48V/12V 100W SM	Consult factory
IE-B54-CV	150V/48V 150W S ROHS	VE-B54-CV	IP-B32-CU	48V/15V 200W	Consult factory
IE-B54-CW	150V/48V 100W S ROHS	VE-B54-CW	IP-B32-CV	48V/15V 150W SM	VI-B32-CV
IE-B60-02	(IE-B60-CV10) 300V/6V 150W	Consult factory	IP-B32-CW	48V/15V 100W SM	Consult factory
IE-B60-CU	300V/ 5V 200W ROHS	VE-B60-CU	IP-B33-CU	48V/24V 200W SM	VI-B33-CU
IE-B60-CV	300V/ 5V 150W ROHS	VE-B60-CV	IP-B33-CV	48V/24V 150W SM	VI-B33-CV
IE-B60-CW	300V/ 5V 100W ROHS	VE-B60-CW	IP-B33-CW	48V/24V 100W SM	VI-B33-CW
IE-B61-CU	300V/12V 200W S ROHS	VE-B61-CU	IP-B34-CU	48V/48V 200W SM	VI-B34-CU
IE-B61-CV	300V/12V 150W S ROHS	VE-B61-CV	IP-B34-CV	48V/48V 150W SM	VI-B34-CV
IE-B61-CW	300V/12V 100W S ROHS	VE-B61-CW	IP-B34-CW	48V/48V 100W SM	Consult factory
IE-B61-CX	300V/12V 75W SM ROHS	Consult factory	IP-B3L-04	48V/28V 200W SM	Consult factory
IE-B62-CU	300V/15V 150W S ROHS	VE-B62-CU	IP-B3L-CU	48V/28V 200W SM	Consult factory
IE-B62-CV	300V/15V 150W S ROHS	VE-B62-CV	IP-B3M-CU	48V/10V 200W SM	VI-B3M-CU
IE-B62-CW	300V/15V 100W S ROHS	VE-B62-CW	IP-B3W-CU	48V/5.5V 36.3A	Consult factory
IE-B63-CU	300V/24V 200W S ROHS	VE-B63-CU	IP-B3Y-CU	48V/3.3V 132W	VI-B3Y-CU
IE-B63-CV	300V/24V 150W S ROHS	VE-B63-CV	IP-B3Z-CU	48V/2V 200W	VI-B3Z-CU
IE-B63-CW	300V/24V 100W S ROHS	VE-B63-CW	IP-B50-01	(IP-B50-0101) 135V/6V 150W	Consult factory
IE-B64-CU	300V/48V 200W S ROHS	VE-B64-CU	IP-B50-0101	135V/6V 150W SMD	Contact factory
IE-B64-CV	300V/48V 150W S ROHS	VE-B64-CV	IP-B50-02	(IP-B50-CV-TR)	Consult factory
IE-B64-CW	300V/48V 100W S ROHS	VE-B64-CW	IP-B50-CV	150V/5V 150W SMD	VI-B50-CV
IE-B6L-CU	300V/28V 200W S ROHS	VE-B6L-CU	IP-B50-CW	150V/5V 100W SMD	VI-B50-CW
IE-B6N-CU	300V/18.5V 200W ROHS	VE-B6N-CU	IP-B51-CU	150V/12V 200W S	VI-B51-CU
IE-B6W-CU	300V/5.5V 200W ROHS	VE-B6W-CU	IP-B51-CV	150V/12V 150W S	VI-B51-CV
IE-B6W-CV	300V/5.5V 150W ROHS	VE-B6W-CV	IP-B51-CW	150V/12V 100W S	VI-B51-CW
IE-B6W-CX	300V/5.5V 75W ROHS	Consult factory	IP-B52-CV	150V/15V 150W S	VI-B52-CV
IE-B6Y-CU	300V/3.3V 132W ROHS	VE-B6Y-CU	IP-B52-CW	150V/15V 100W S	VI-B52-CW
IE-B6Z-CU	300V/ 2V 200W ROHS	VE-B6Z-CU	IP-B52-CW-05	150V/15V 100	Consult factory
IE-BN0-CV	48V/5V 150W SMD ROHS	VE-BN0-CV	IP-B53-CU	150V/24V 200W Booster	VI-B53-CU
IE-BN1-CV	48V/12V 150W SM ROHS	VE-BN1-CV	IP-B53-CV	150V/24V 150W SMD	VI-B53-CV
IE-BN2-CV	48V/15V 150W SM ROHS	VE-BN2-CV	IP-B53-CW	150V/24V 100W S	VI-B53-CW
IE-BN3-CV	48V/24V 150W SM ROHS	VE-BN3-CV	IP-B54-03	(IP-B54-CU-TR)	Consult factory
IE-BN4-CV	48V/48V 150W SM ROHS	VE-BN4-CV	IP-B54-CU	150V/48V 200W SMD	VI-B54-CU
IE-BT0-CV	100V/5V 150W ROHS	VE-BT0-CV	IP-B54-CV	150V/48V 150W S	VI-B54-CV
IE-BT1-CW	100V/12V 100W S ROHS	Consult factory	IP-B54-CV-04	(IP-B54-CV) 150V/48V 150W	Consult factory



IE-BT3-CV	100V/24V 150W S ROHS	VE-BT3-CV	IP-B54-CW	150V/48V 100W S	VI-B54-CW
IE-BT4-CV	100V/24V 150W S ROHS	VE-BT4-CV	IP-B60-02	(IP-B60-CV10) 300V/6V 150W	Consult factory
IE-BW0-CW	24V/5V 100W SMD ROHS	VE-BW0-CW	IP-B60-05	(IP-B60-CV-TR)	Consult factory
IE-BW1-CV	24V/12V 150W SM ROHS	VE-BW1-CV	IP-B60-CU	300V/ 5V 200W	VI-B60-CU
IE-BW3-CV	24V/24V 150W SM ROHS	VE-BW3-CV	IP-B60-CV	300V/5V 150W	VI-B60-CV
IE-BW4-CV	24V/48V 150W SM ROHS	VE-BW4-CV	IP-B60-CW	300V/ 5V 100W	VI-B60-CW
IE-BWY-CW	24V/3.3V 20A ROHS	VE-BWY-CW	IP-B61-06	(IP-B61-CU-TR)	Consult factory
IE-J00-CY	12V/5V 50W ROHS	VE-J00-CY	IP-B61-CU	300V/12V 200W S	VI-B61-CU
IE-J00-CZ	12V/5V 25W SMD ROHS	VE-J00-CZ	IP-B61-CU-07	300V/12V 200W	Consult factory
IE-J01-CY	12V/12V 50W ROHS	VE-J01-CY	IP-B61-CV	300V/12V 150W S	VI-B61-CV
IE-J01-CZ	12V/12V 25W ROHS	VE-J01-CZ	IP-B61-CW	300V/12V 100W S	VI-B61-CW
IE-J02-CY	12V/15V 50W ROHS	VE-J02-CY	IP-B61-CX	300V/12V 75W SM	Consult factory
IE-J02-CZ	12V/15V 25W ROHS	VE-J02-CZ	IP-B62-CU	300V/15V 150W S	VI-B62-CU
IE-J03-CY	12V/24V 50W ROHS	VE-J03-CY	IP-B62-CV	300V/15V 150W	VI-B62-CV
IE-J03-CZ	12V/24V 25W ROHS	VE-J03-CZ	IP-B62-CW	300V/15V 100W S	VI-B62-CW
IE-J04-CY	12V/48V 50W ROHS	VE-J04-CY	IP-B63-04	(IP-B63-CU05) 300V/28V HINO	Consult factory
IE-J10-CX	24V/5V 75W ROHS	VE-J10-CX	IP-B63-CU	300V/24V 200W S	VI-B63-CU
IE-J10-CZ	24V/5V 25W ROHS	VE-J10-CZ	IP-B63-CV	300V/24V 150W S	VI-B63-CV
IE-J14-CZ	24V/48V 25W ROHS	VE-J14-CZ	IP-B63-CW	300V/24V 100W S	VI-B63-CW
IE-J20-CY	36V/5V 50W ROHS	VE-J20-CY	IP-B64-CU	300V/48V 200W	VI-B64-CU
IE-J20-CZ	36V/5V 25W ROHS	VE-J20-CZ	IP-B64-CV	300V/48V 150W S	VI-B64-CV
IE-J21-CZ	36V/12V 25W ROHS	VE-J21-CZ	IP-B64-CW	300V/48V 100W S	VI-B64-CW
IE-J22-CY	36V/15V 50W ROHS	VE-J22-CY	IP-B6L-CU	300V/28V 200W SMD	VI-B6L-CU
IE-J22-CZ	36V/15V 25W ROHS	VE-J22-CZ	IP-B6N-CU	300V/18.5V 200W	VI-B6N-CU
IE-J23-CZ	36V/24V 25W ROHS	VE-J23-CZ	IP-B6W-CU	300V/5.5V 200W	VI-B6W-CU
IE-J30-CX	48V/5V 75W ROHS	VE-J30-CX	IP-B6W-CV	300V/5.5V 150W	VI-B6W-CV
IE-J30-CY	48V/5V 50W ROHS	VE-J30-CY	IP-B6W-CX	300V/5.5V 75W	Consult factory
IE-J30-CZ	48V/5V 25W ROHS	VE-J30-CZ	IP-B6Y-CU	300V/3.3V 132W	VI-B6Y-CU
IE-J31-CW	48V/12V 100W ROHS	VE-J31-CW	IP-B6Z-CU	300V/ 2V 200W	VI-B6Z-CU
IE-J31-CX	48V/12V 75W ROHS	VE-J31-CX	IP-BN0-CV	48V/5V 150W SMD	VI-BN0-CV
IE-J31-CY	48V/12V 50W ROHS	VE-J31-CY	IP-BN1-CV	48V/12V 150W SM	VI-BN1-CV
IE-J31-CZ	48V/12V 25W ROHS	VE-J31-CZ	IP-BN2-CV	48V/15V 150W SM	VI-BN2-CV
IE-J32-CX	48V/15V 75W ROHS	VE-J32-CX	IP-BN3-CV	48V/24V 150W SM	VI-BN3-CV
IE-J32-CY	48V/15V 50W ROHS	VE-J32-CY	IP-BN4-CV	48V/48V 150W SM	VI-BN4-CV
IE-J50-CX	150V/5V 75W ROHS	VE-J50-CX	IP-BT0-CV	100V/5V 150W	VI-BT0-CV
IE-J50-CY	150V/5V 50W ROHS	VE-J50-CY	IP-BT1-CW	100V/12V 100W S	Consult factory
IE-J51-CY	150V/12V 50W ROHS	VE-J51-CY	IP-BT3-01	100V/24V 150W	Consult factory
IE-J52-CX	150V/15V 75W ROHS	VE-J52-CX	IP-BT3-CV	100V/24V 150W S	VI-BT3-CV
IE-J53-CY	150V/24V 50W ROHS	VE-J53-CY	IP-BT4-CV	100V/24V 150W S	VI-BT4-CV
IE-J54-CX	150V/48V 75W ROHS	VE-J54-CX	IP-BW0-CW	24V/5V 100W SMD	VI-BW0-CW
IE-J60-CX	300V/5V 75W ROHS	VE-J60-CX	IP-BW1-CV	24V/12V 150W SM	VI-BW1-CV
IE-J60-CY	300V/5V 50W ROHS	VE-J60-CY	IP-BW3-CV	24V/24V 150W SM	VI-BW3-CV



IE-J60-CZ	300V/5V 25W ROHS	VE-J60-CZ	IP-BW4-CV	24V/48V 150W SM	VI-BW4-CV
IE-J61-CW	300V/12V 100W ROHS	VE-J61-CW	IP-BWY-CW	24V/3.3V 20A	VI-BWY-CW
IE-J61-CX	300V/12V 75W ROHS	VE-J61-CX	IP-J00-01	(IP-J00-CY02) 12V/5V 30W	Consult factory
IE-J61-CY	300V/12V 50W ROHS	VE-J61-CY	IP-J00-CY	12V/5V 50W	VI-J00-CY
IE-J61-CZ	300V/12V 25W ROHS	VE-J61-CZ	IP-J00-CZ	12V/5V 25W SMD	VI-J00-CZ
IE-J62-CX	300V/15V 75W ROHS	VE-J62-CX	IP-J01-CY	12V/12V 50W	VI-J01-CY
IE-J62-CY	300V/15V 50W ROHS	VE-J62-CY	IP-J01-CZ	12V/12V 25W	VI-J01-CZ
IE-J62-CZ	300V/15V 25W ROHS	VE-J62-CZ	IP-J02-CY	12V/15V 50W	VI-J02-CY
IE-J63-CW	300V/24V 100W ROHS	VE-J63-CW	IP-J02-CZ	12V/15V 25W	VI-J02-CZ
IE-J63-CX	300V/24V 75W ROHS	VE-J63-CX	IP-J03-CY	12V/24V 50W	VI-J03-CY
IE-J63-CY	300V/24V 50W ROHS	VE-J63-CY	IP-J03-CZ	12V/24V 25W	VI-J03-CZ
IE-J64-CW	300V/48V 100W ROHS	VE-J64-CW	IP-J04-CY	12V/48V 50W	VI-J04-CY
IE-J64-CY	300V/48V 50W ROHS	VE-J64-CY	IP-J10-CX	24V/5V 75W	VI-J10-CX
IE-J6L-CW	300V/28V 100W ROHS	VE-J6L-CW	IP-J10-CZ	24V/5V 25W	VI-J10-CZ
IE-J6L-CX	300V/28V 75W ROHS	VE-J6L-CX	IP-J14-CZ	24V/48V 25W	VI-J14-CZ
IE-J6Z-CY	300V/2V 10A ROHS	VE-J6Z-CY	IP-J20-01	(IP-J20-CYF) 36V/5V 50W	Consult factory
IE-J70-CY	150V 225/5V 50W ROHS	VE-J70-CY	IP-J20-CY	36V/5V 50W	VI-J20-CY
IE-J70-CZ	150V 300/5V 25W ROHS	VE-J70-CZ	IP-J20-CZ	36V/5V 25W	VI-J20-CZ
IE-J71-CY	150V 300/12V 50W ROHS	VE-J71-CY	IP-J21-CZ	36V/12V 25W	VI-J21-CZ
IE-J71-CZ	150V 300/12V 25W ROHS	VE-J71-CZ	IP-J22-CY	36V/15V 50W	VI-J22-CY
IE-J73-CY	150V 300/24V 50W ROHS	VE-J73-CY	IP-J22-CZ	36V/15V 25W	VI-J22-CZ
IE-JN0-CY	48V/5V 50W ROHS	VE-JN0-CY	IP-J23-CZ	36V/24V 25W	VI-J23-CZ
IE-JN0-CZ	48V/5V 25W SMD ROHS	VE-JN0-CZ	IP-J2M-02	(IP-J2M-CYF) 36V/10V 50W	Consult factory
IE-JN1-CX	48V/12V 75W ROHS	VE-JN1-CX	IP-J30-04	48V/5V 75W	Consult factory
IE-JN1-CY	48V/12V 50W ROHS	VE-JN1-CY	IP-J30-CX	48V/5V 75W	VI-J30-CX
IE-JNY-CZ	48V/3.3V 5A ROHS	VE-JNY-CZ	IP-J30-CY	48V/5V 50W	VI-J30-CY
IE-JT1-CY	100V/12V 50W ROHS	VE-JT1-CY	IP-J30-CZ	48V/5V 25W	VI-J30-CZ
IE-JT2-CY	100V/15V 50W ROHS	VE-JT2-CY	IP-J31-01	(IP-J31-CY02) 48V/12V 50W	Consult factory
IE-JW0-CY	24V/5V 50W SMD ROHS	VE-JW0-CY	IP-J31-02	(IP-J31-CY01)	Consult factory
IE-JW0-CZ	24V/5V 25W SMD ROHS	VE-JW0-CZ	IP-J31-CW	48V/12V 100W	VI-J31-CW
IE-JW1-CX	18-36V/12V 75W ROHS	VE-JW1-CX	IP-J31-CX	48V/12V 75W	VI-J31-CX
IE-JW1-CY	24V/12V 50W SMD ROHS	VE-JW1-CY	IP-J31-CY	48V/12V 50W	VI-J31-CY
IE-JW1-CZ	24V/12V 25W ROHS	VE-JW1-CZ	IP-J31-CZ	48V/12V 25W	VI-J31-CZ
IE-JW2-CZ	24V/15V 25W ROHS	VE-JW2-CZ	IP-J32-03	(IP-J32-CY03)	Consult factory
IE-JW3-CY	24V/24V 50W ROHS	VE-JW3-CY	IP-J32-CX	48V/15V 75W	VI-J32-CX
IE-JWY-CZ	24V/3.3V 5A ROHS	VE-JWY-CZ	IP-J32-CY	48V/15V 50W	VI-J32-CY
IP-200-04	12V/5V 50W SMD	Consult factory	IP-J50-CX	150V/5V 75W	VI-J50-CX
IP-200-CX	12V/5V 75W SMD	VI-200-CX	IP-J50-CY	150V/5V 50W JR	VI-J50-CY
IP-200-CY	12V/5V 50W SMD	VI-200-CY	IP-J51-01	(IP-J51-CY01) 150V/12V 50W	Consult factory
IP-201-CX	12V/12V 75W SMD	VI-201-CX	IP-J51-CY	150V/12V 50W	VI-J51-CY
IP-201-CY	12V/12V 50W SMD	VI-201-CY	IP-J52-CX	150V/15V 75W	VI-J52-CX



IP-202-CX	12V/15V 75W SMD	VI-202-CX	IP-J53-CY	150V/24V 50W	VI-J53-CY
IP-202-CY	12V/15V 50W SMD	VI-202-CY	IP-J54-CX	150V/48V 75W	VI-J54-CX
IP-203-CX	12V/24V 75W SMD	VI-203-CX	IP-J60-CX	300V/5V 75W	VI-J60-CX
IP-203-CY	12V/24V 50W SMD	VI-203-CY	IP-J60-CY	300V/5V 50W	VI-J60-CY
IP-204-02	12V/35V 70W SMD	Consult factory	IP-J60-CZ	300V/5V 25W	VI-J60-CZ
IP-204-03	(IP-204-CX02-TR) 12V/28V 70W SMD	Consult factory	IP-J61-CW	300V/12V 100W	VI-J61-CW
IP-204-CX	12V/48V 75W SMD	VI-204-CX	IP-J61-CX	300V/12V 75W	VI-J61-CX
IP-204-CX01-TR1	12V/48V 75W	Contact factory	IP-J61-CY	300V/12V 50W	VI-J61-CY
IP-204-CY	12V/48V 50W SMD	VI-204-CY	IP-J61-CZ	300V/12V 25W	VI-J61-CZ
IP-210-CV	24V/5V 150W SMD	VI-210-CV	IP-J62-CX	300V/15V 75W	VI-J62-CX
IP-210-CV-11	24V/5V 150W	Consult factory	IP-J62-CY	300V/15V 50W	VI-J62-CY
IP-210-CW	24V/5V 100W SMD	VI-210-CW	IP-J62-CZ	300V/15V 25W	VI-J62-CZ
IP-210-CX	24V/5V 75W SMD	VI-210-CX	IP-J63-CW	300V/24V 100W	VI-J63-CW
IP-210-CY	24V/5V 50W	VI-210-CY	IP-J63-CX	300V/24V 75W	VI-J63-CX
IP-210-CY-02	24V/5V 50W	Consult factory	IP-J63-CY	300V/24V 50W	VI-J63-CY
IP-210-CY-07	24V/5V 50W	Consult factory	IP-J64-CW	300V/48V 100W	VI-J64-CW
IP-211-CV	24V/12V 150W	VI-211-CV	IP-J64-CY	300V/48V 50W	VI-J64-CY
IP-211-CV-10	24V/12V 150W	Consult factory	IP-J6L-CW	300V/28V 100W	VI-J6L-CW
IP-211-CV-15	24V/12V 150W	Consult factory	IP-J6L-CX	300V/28V 75W	VI-J6L-CX
IP-211-CW	24V/12V 100W SM	VI-211-CW	IP-J6W-CY-01	(IP-J6W-CY__S) 300/5.5V 50W	Consult factory
IP-211-CX	24V/12V 75W SMD	VI-211-CX	IP-J6Z-CY	300V/2V 10A	VI-J6Z-CY
IP-211-CY	24V/12V 50W SMD	VI-211-CY	IP-J70-CY	150V 225/5V 50W	VI-J70-CY
IP-211-CY-17	(IP-211-CY) 24V/12V 50W	Consult factory	IP-J70-CZ	150V 300/5V 25W	VI-J70-CZ
IP-212-01	24V/14V 150W SM	Consult factory	IP-J71-CY	150V 300/12V 50W	VI-J71-CY
IP-212-CV	24V/15V 150W SM	VI-212-CV	IP-J71-CY	150V 300V/12V 50W	VI-J71-CY
IP-212-CV-12	24V/15V 150W	Consult factory	IP-J71-CZ	150V 300/12V 25W	VI-J71-CZ
IP-212-CW	24V/15V 100 W	VI-212-CW	IP-J73-CY	150V 300/24V 50W	VI-J73-CY
IP-212-CX	24V/15V 75W SMD	VI-212-CX	IP-JN0-CY	36-76V/5V 50W SMD	VI-JN0-CY
IP-212-CY	24V/15V 50W	VI-212-CY	IP-JN0-CZ	48V/5V 25W SMD	VI-JN0-CZ
IP-212-CY-08	24V/15V 50W	Consult factory	IP-JN1-CX	48V/12V 75W	VI-JN1-CX
IP-212-CY-16	24V/15V 50W	Consult factory	IP-JN1-CY	36-76V/12V 50W	VI-JN1-CY
IP-213-18	24V/24V 150W SM	Consult factory	IP-JNY-CZ	48V/3.3V 5A	VI-JNY-CZ
IP-213-CV	24V/24V 150W	VI-213-CV	IP-JT1-CY	100V/12V 50W	VI-JT1-CY
IP-213-CW	24V/24V 100W	VI-213-CW	IP-JT2-CY	100V/15V 50W	VI-JT2-CY
IP-213-CX	24V/24V 75W SMD	VI-213-CX	IP-JW0-CY	24V/5V 50W SMD	VI-JW0-CY
IP-213-CX-09	24V/24V 75W	Consult factory	IP-JW0-CZ	18-36V/5V 25W	VI-JW0-CZ
IP-213-CY	24V/24V 50W	VI-213-CY	IP-JW1-CX	18-36V/12V 75W	VI-JW1-CX
IP-213-CY-03	(IP-213-CY) 24V/24V 50W SMD	Consult factory	IP-JW1-CY	18-36V/12V 50W	VI-JW1-CY
IP-214-04	(IP-214-CV01) 24V/48V 100W	Consult factory	IP-JW1-CY-01	24V/12V 50W	Consult factory
IP-214-CV	24V/48V 150W SM	VI-214-CV	IP-JW1-CZ	18-36V/12V 25W	VI-JW1-CZ
IP-214-CV01	24V/48V 100W SMD	Contact factory	IP-JW2-CZ	24V/15V 25W	VI-JW2-CZ



IP-214-CV-14	24V/48VN 150W	Consult factory	IP-JW3-CY	18-36V/24V 50W	VI-JW3-CY
IP-214-CW	24V/48V 100W SM	VI-214-CW	IP-JWY-CZ	24V/3.3V 5A	VI-JWY-CZ
IP-214-CX	24V/48V 75W SMD	Consult factory	XP-232-08	48V/15V 300W SMD	Consult factory
IP-214-CY	24V/48V 50W SMD	Consult factory	XP-263-05	(XP-263-CU05) 300V/28V HINO	Consult factory

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