

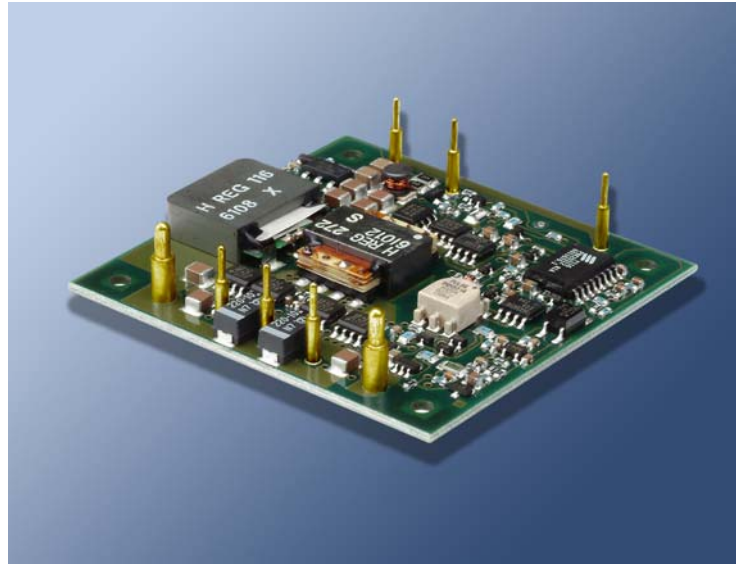
## DC/DC converters

### Input 36-75 Vdc

### Output up to 40A/100W

#### Key Features

- Industry standard Half-brick  
58x61x8.5 mm (2.3x2.4x0.33 in)
- Low profile, max 8.5 mm (0.33 in)
- Design for environment in a cost efficient open-frame design
- High efficiency, typ. 93 % at 3.3 Vout half load
- 1500 VDC input to output isolation, meets isolation requirements equivalent to Basic Insulation according to IEC/EN/UL 60950
- More than 6 million hours predicted MTBF at 55° C ambient and 1 m/s (200 lfm) airflow



The PKJ 4000E series of high efficiency DC/DC converters are designed to provide high quality on-board power solutions in distributed power architectures used in Internetworking equipment in wireless and wired communications applications. The PKJ 4000E series has industry standard half brick footprint and pin-out and is only 8.5 mm (0.33 in) high. This makes it extremely well suited for narrow board pitch applications with board spacing down to 15 mm (0.6 in). The PKJ 4000E series uses patented synchronous rectification technology and achieves an efficiency up to 89% at full load. Ericsson's PKJ 4000E series addresses the emerging telecom market

for applications in the multi-service network by specifying the input voltage range in accordance with ETSI specifications.

Included as standard features are output over-voltage protection, input under-voltage protection, over temperature protection, soft-start, output short circuit protection, remote sense, remote control, and output voltage adjust function.

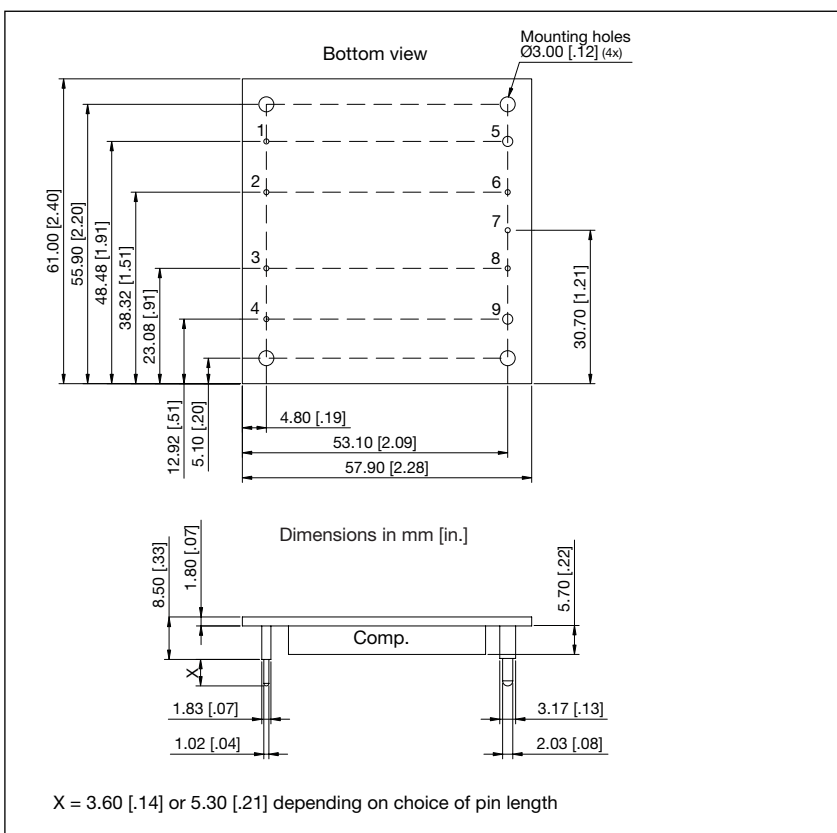
These converters are designed to meet high reliability requirements and are manufactured in highly automated manufacturing lines and meet world-class quality levels. Ericsson Power Modules is an ISO 9001/14001 certified supplier.

## Product Program

Input Voltage	Output Voltage	Output Current	Output Power	Part No.	Comment
36-75 V	0.9 V	40 A	36 W	PKJ 4318OE PI	1)
	1.2 V	38 A	46 W	PKJ 4418LE PI	1)
	1.5 V	40 A	60 W	PKJ 4618HE PI	1)
	1.8 V	36 A	65 W	PKJ 4618GE PI	1)
	2.5 V	30 A	75 W	PKJ 4719E PI	samples available
	3.3 V	25 A	82.5 W	PKJ 4810E PI	samples available
	5 V	20 A	100 W	PKJ 4111E PI	samples available
	6.5 V	15 A	100 W	PKJ 4117VE PI	1)

1) Preliminary product code, samples available on request

### Mechanical data



### Connections

Pin	Designation	Function
1	- In	Negative Input
2		No pin
3	RC	Remote Control
4	+ In	Positive Input
5	- Out	Negative Output
6	- Sen	Negative Sense
7	Vadj	Output voltage adjust
8	+ Sen	Positive Sense
9	+ Out	Positive Output

New Product Overview is intended for discussion to determine interest and requirements. Information provided is believed to be accurate and reliable. Ericsson Power Modules makes no commitment to sample or manufacture for sale these products and reserves the right to make changes to the product, or information contained herein, without notice

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**New Product Overview**

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