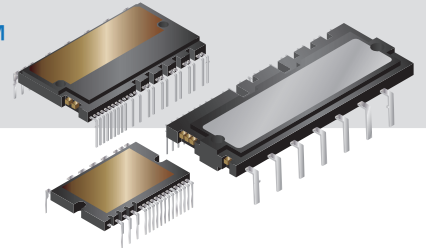




Version 6 DIIPM™



Applications

- Servo / motion controls
- HVAC
- Home appliances
- Pumps
- Low-capacity industrial inverters

Product Advantages

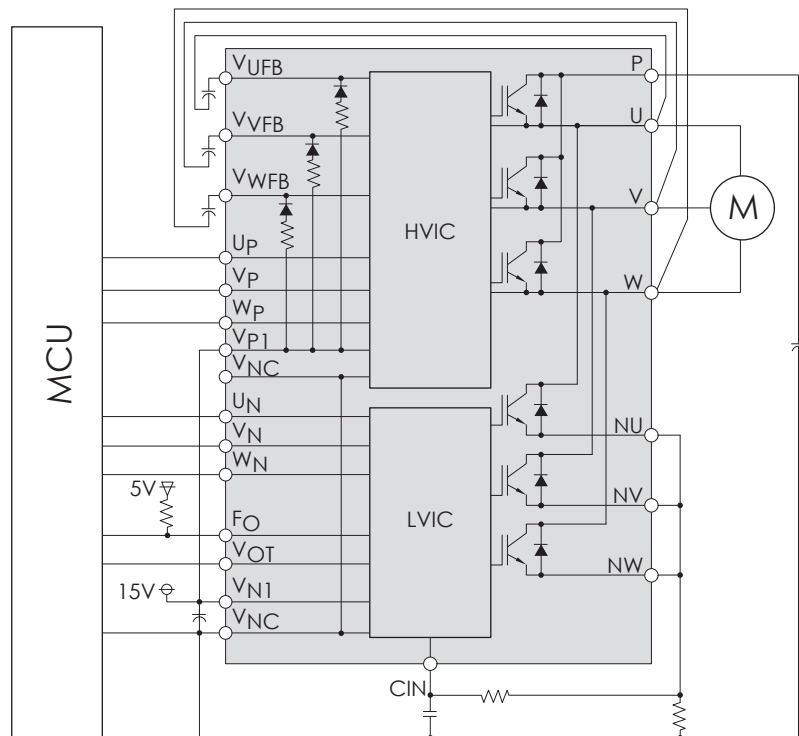
- Built-in bootstrap diodes and current limiting resistors
- High-accuracy analog temperature output
- Standardized packages simplify design cycles

Overview

Powerex Version 6 DIIPM™ simplifies the design of low power inverters for residential, commercial, and industrial applications. Standard features such as analog temperature output and built-in bootstrap diodes reduce the need for peripheral components, thus reducing overall system costs.

By using the latest low loss IGBT (7th Generation CSTBT™), the product line-up has been expanded to suit a wider range of applications. The design effort is minimized, as Version 6 DIIPM employs the same standard external packaging previously introduced for Versions 4 and 5.

Simplified Block Diagram



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Line-up Table

Package	Part Number	V_{DSS}	I_D	$I_D(peak)$
Super Mini MOSFET DIIPM (24mm x 38mm)	PSM03S93E5-A	500V	3A	6A
	PSM05S93E5-A	500V	5A	10A

Package	Part Number	V_{CES}	I_C	$I_C(peak)$
Super Mini DIIPM (24mm x 38mm)	PSS05S92F6-AG	600V	5A	10A
	PSS10S92F6-AG	600V	10A	20A
	PSS15S92F6-AG	600V	15A	30A
	PSS20S92F6-AG	600V	20A	40A
	PSS30S92F6-AG	600V	30A	60A
	PSS35S92F6-AG	600V	35A	70A
Mini DIIPM (31mm x 52.5mm)	PSS20S71F6	600V	20A	40A
	PSS30S71F6	600V	30A	60A
	PSS50S71F6	600V	50A	100A
Large DIIPM (31mm x 79mm)	PSS05SA2FT	1200V	5A	10A
	PSS10SA2FT	1200V	10A	20A
	PSS15SA2FT	1200V	15A	30A
	PSS25SA2FT	1200V	25A	50A
	PSS35SA2FT	1200V	35A	70A
	PSS50SA2FT	1200V	50A	100A



Mitsubishi Power Module Loss Simulator
(MELCOSIM) software,

available at www.pwr.com, validates device selection based on your specific conditions.



PowerSim App easily calculates the semiconductor power losses of your 3-phase inverter.

Now available at www.pwr.com for iPhone and Android smart phones.



POWEREX

For more information:

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