PRM Series

Features

- ZVS buck / boost regulator.
- Small footprint: 1.1in² (7.1cm²).
- Provides factorised bus for 48 Vin VTMs.
- Available in 24 and 48V models.
- J-Lead package.
- Efficiency: Up to 97%.
- Pick & place / SMD compatible.
- High density: Up to 875W/in³.

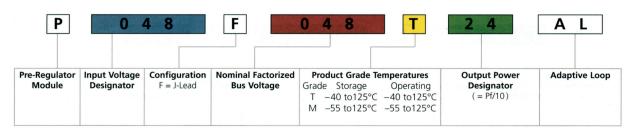


Pre-Regulator Module (PRM) **PRODUCT DESCRIPTION**

The V•I Chip Pre-Regulator Module (PRM) is a very efficient non-isolated regulator capable of both boosting and bucking a wide range input voltage. It is specifically designed to provide a controlled Factorized Bus distribution voltage for powering downstream V•I Chip Voltage Transformation Modules (VTMs)— fast, efficient, isolated low noise Point-of-Load (POL) converters.

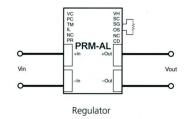
PRMs feature a unique "Adaptive Loop" compensation feedback: a single wire alternative to traditional remote sensing and feedback loops that enables precise control of an isolated POL voltage without the need for either a direct connection to the POL or for noise sensitive, bandwidth limiting, isolation devices in the feedback path.

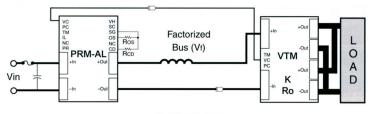
Part Numbering



Input Voltage	Max Output		PRM Model No	Trim / Vf Panga
	Power	Current	FRIVI WODEL NO	Trim / Vf Range
36 – 75 Vdc	240 W	5.0 A	P048F048T24AL	26 – 55 V
	120 W	4.2 A	P048F048T12AL	
38 – 55 Vdc	170 W	3.5 A	P045F048T17AL	
18 – 36 Vdc	120 W	2.5 A	P024F048T12AL	

Application Examples





DC-DC Converter

