

Technical Data



PVI1300TL
PVI1800TL
PVI2300TL
PVI2700TL
PVI3000TL

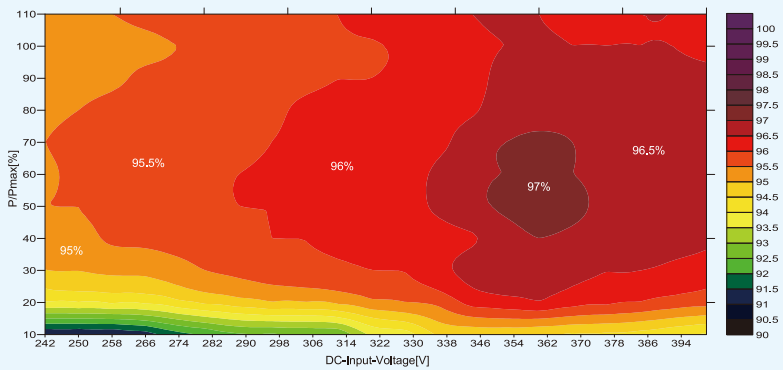
Features:

- > Max efficiency 97.1%
- > High efficiency across wide operation range
- > Wide range of input DC and MPPT voltage
- > Low turn-off DC voltage
- > IP65 protection against water and dust
- > DC switch option

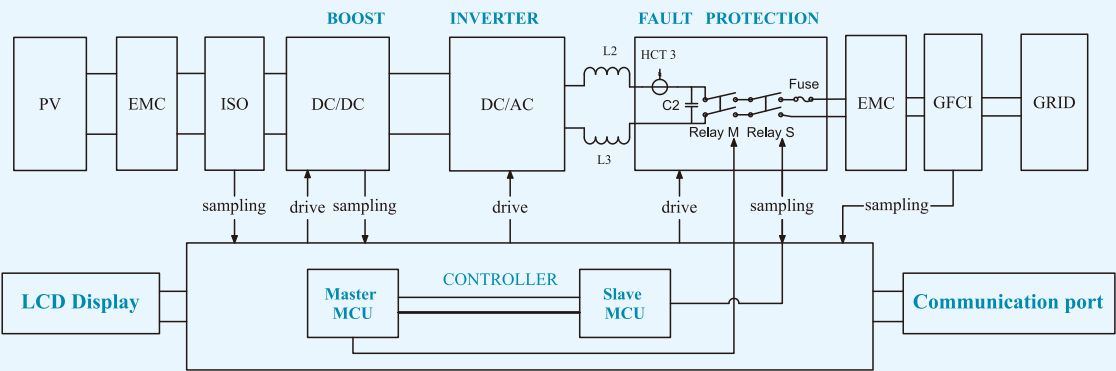
Certificates and Approvals:

CE, VDE AR-N-4105, VDE 0126-1-1+A1, G83/2, G59/2, G59/3, AS4777, ENEL, RD1663, IEC61727, UTE C15-712, MEA, PEA, CQC, NB/T32004-2013, ROHS, REACH

Efficiency Curve (PVI1800TL):



Circuit Diagram:



PVI Series

PVI1300TL / PVI1800TL / PVI2300TL / PVI2700TL / PVI3000TL

Model	PVI1300TL	PVI1800TL	PVI2300TL	PVI2700TL	PVI3000TL
Rated AC power	1000 W	1500 W	2000 W	2500 W	2800 W
Maximum AC power	1100 VA	1650 VA	2200 VA	2750 VA	3080 VA
Input					
Maximum input power	1300 W	1800 W	2300 W	2900 W	3200 W
Maximum input voltage	500 Vdc	500 Vdc	500 Vdc	500 Vdc	500 Vdc
MPPT operating range	50 - 450 Vdc	70 - 450 Vdc	70 - 450 Vdc	70 - 450 Vdc	70 - 450 Vdc
Maximum input current	12A dc	12A dc	12A dc	12 A dc	12A dc
Startup voltage	50 Vdc	60 Vdc	60 Vdc	60 Vdc	60 Vdc
DC switch	optional	optional	optional	optional	optional
Initial feeding voltage	60 Vdc	90 Vdc	90 Vdc	90 Vdc	90 Vdc
Number of inputs	1	1	1	1	1
MPPT number	1	1	1	1	1
Output					
Grid voltage	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac
Grid phase	single phase	single phase	single phase	single phase	single phase
Grid voltage range	180 - 270 V (May vary as per corresponding country's grid standard)				
Frequency range	50 Hz, 60 Hz / -5 Hz ... +5 Hz				
Power factor	Rated >0.99 0.8 leading...0.8 lagging controllable				
Maximum current	6 A ac	8,4 A ac	11,3 A ac	14 A ac	15,7 A ac
DC current injection	<20 mA	<20 mA	<20 mA	<20 mA	<20 mA
Current Harmonic Distorsion (THDi)	<1%	<1%	<1%	<1%	<1%
System					
Maximum efficiency	>97,1%	>97,1%	>97,1%	>97,1%	>97,1%
European efficiency	>96,5%	>96,5%	>96,5%	>96,5%	>96,5%
MPPT efficiency	>99,5%	>99,5%	>99,5%	>99,5%	>99,5%
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Anti-Islanding protection	Yes	Yes	Yes	Yes	Yes
Night power consumption	<0,2 W	<0,2 W	<0,2 W	<0,2 W	<0,2 W
Detecting earth leakage	Yes	Yes	Yes	Yes	Yes
Cooling	Convection	Convection	Convection	Convection	Convection
Mechanical Spec.					
Dimensions in mm	380 x 320 x 140				
Weight	13 Kg	13 Kg	13 Kg	13 Kg	13 Kg
IP degree	IP65				
Display	LCD 2 x 16 characters				
Function key	1				
Data interface	RS232 / RS485 / Ethernet / WiFi / GPRS / USB				
Thermal protection	Yes				
Audible noise level	<35 dB				
Ambient operating temp.	-25 °C - +60 °C (>45 °C derating)				