

PARAMETER	PVI-3.0-TL-OUTD	PVI-3.6-TL-OUTD	PVI-4.2-TL-OUTD
Input Side			
Absolute Maximum DC Input Voltage ($V_{max,abs}$)		600 V	
Start-up DC Input Voltage (V_{start})		200 V (adj. 120...350 V)	
Operating DC Input Voltage Range ($V_{dcmin}...V_{dcmax}$)		0.7 x $V_{start}...580$ V	
Rated DC Input Power (P_{dcr})	3120 W	3750 W	4375 W
Number of Independent MPPT		2	
Maximum DC Input Power for each MPPT ($P_{MPPTmax}$)	2000 W		3000 W
DC Input Voltage Range with Parallel Configuration of MPPT at P_{dcr}	160...530 V	120...530 V	140...530 V
DC Power Limitation with Parallel Configuration of MPPT	Linear Derating From MAX to Null [$530V \leq V_{MPPT} \leq 580V$]		
DC Power Limitation for each MPPT with Independent Configuration of MPPT at P_{dcr} , max unbalance example	2000 W [$200V \leq V_{MPPT} \leq 530V$] the other channel: $P_{dcr} - 2000W$ [$112V \leq V_{MPPT} \leq 530V$]	3000 W [$190V \leq V_{MPPT} \leq 530V$] the other channel: $P_{dcr} - 3000W$ [$90V \leq V_{MPPT} \leq 530V$]	
Maximum DC Input Current (I_{dcmax}) / for each MPPT ($I_{MPPTmax}$)	20.0 A / 10.0 A		32.0 A / 16.0 A
Maximum Input Short Circuit Current for each MPPT	12.5 A		20.0 A
Number of DC Inputs Pairs for each MPPT	1		2 for MPPT1 and 1 for MPPT2
DC Connection Type	Tool Free PV Connector WM / MC4		
Input Protection			
Reverse Polarity protection	Yes, from limited current source		
Input Over Voltage Protection for each MPPT - Varistor	2		
Photovoltaic Array Isolation Control	According to local standard		
DC Switch Rating for each MPPT (-S Version)	25 A / 600 V		
Output Side			
AC Grid Connection Type	Single phase		
Rated AC Power (P_{acr})	3000 W	3600 W	4200 W
Maximum AC Output Power (P_{acmax})	3300 W	4000 W	4600 W
Rated AC Grid Voltage (V_{acr})		230 V	
AC Voltage Range		180...264 V ⁽¹⁾	
Maximum AC Output Current ($I_{ac,max}$)	14.5 A	17.2 A ⁽²⁾	20.0 A
Rated Output Frequency (f_r)		50 Hz	
Output Frequency Range ($f_{min}...f_{max}$)		47...53 Hz ⁽³⁾	
Nominal Power Factor ($\cos\phi_{I_{acr}}$)		> 0.995	
Total Current Harmonic Distortion		< 3.5 %	
AC Connection Type	Screw terminal block		
Output Protection			
Anti-Islanding Protection	According to local standard		
Maximum AC Overcurrent Protection	16.0 A	19.0 A	22.0 A
Output Overvoltage Protection - Varistor	2 (L - N / L - PE)		
Operating Performance			
Maximum Efficiency (η_{max})	96.8%		
Weighted Efficiency (EURO/CEC)	96.0% / -		
Feed In Power Threshold	10.0 W		
Stand-by Consumption	< 8.0 W		
Communication			
Wired Local Monitoring	PVI-USB-RS485_232 (opt.), PVI-DESKTOP (opt.)		
Remote Monitoring	PVI-AEC-EVO (opt.), AURORA-UNIVERSAL (opt.)		
Wireless Local Monitoring	PVI-DESKTOP (opt.) with PVI-RADIOMODULE (opt.)		
User Interface	16 characters x 2 lines LCD display		
Environmental			
Ambient Temperature Range	-25...+60°C / -13...140°F with derating above 55°C/131°F		
Relative Humidity	0...100 % condensing		
Noise Emission	< 50 db(A) @ 1 m		
Maximum Operating Altitude without Derating	2000 m / 6560 ft		
Physical			
Environmental Protection Rating	IP 65		
Cooling	Natural		
Dimension (H x W x D)	617mm x 325mm x 222mm / 24.3" x 12.8" x 8.7"		
Weight	17.5 kg / 38.5 lb		
Mounting System	Wall bracket		
Safety			
Isolation Level	Transformerless		
Marking	CE		
Safety and EMC Standard	EN 50178, AS/NZS3100, AS/NZS 60950, EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3		
Grid Standard	DK 5940, VDE 0126-1-1, G83/1, EN 50438, RD1663, AS 4777	DK 5940, VDE 0126-1-1, G83/1, G59/2 ⁽⁴⁾ , EN 50438, RD1663, AS 4777	DK 5940, VDE 0126-1-1, G59/2, EN 50438, RD1663, AS 4777
Available Products Variants			
Standard	PVI-3.0-TL-OUTD	PVI-3.6-TL-OUTD	PVI-4.2-TL-OUTD
With DC Switch	PVI-3.0-TL-OUTD-S	PVI-3.6-TL-OUTD-S	PVI-4.2-TL-OUTD-S

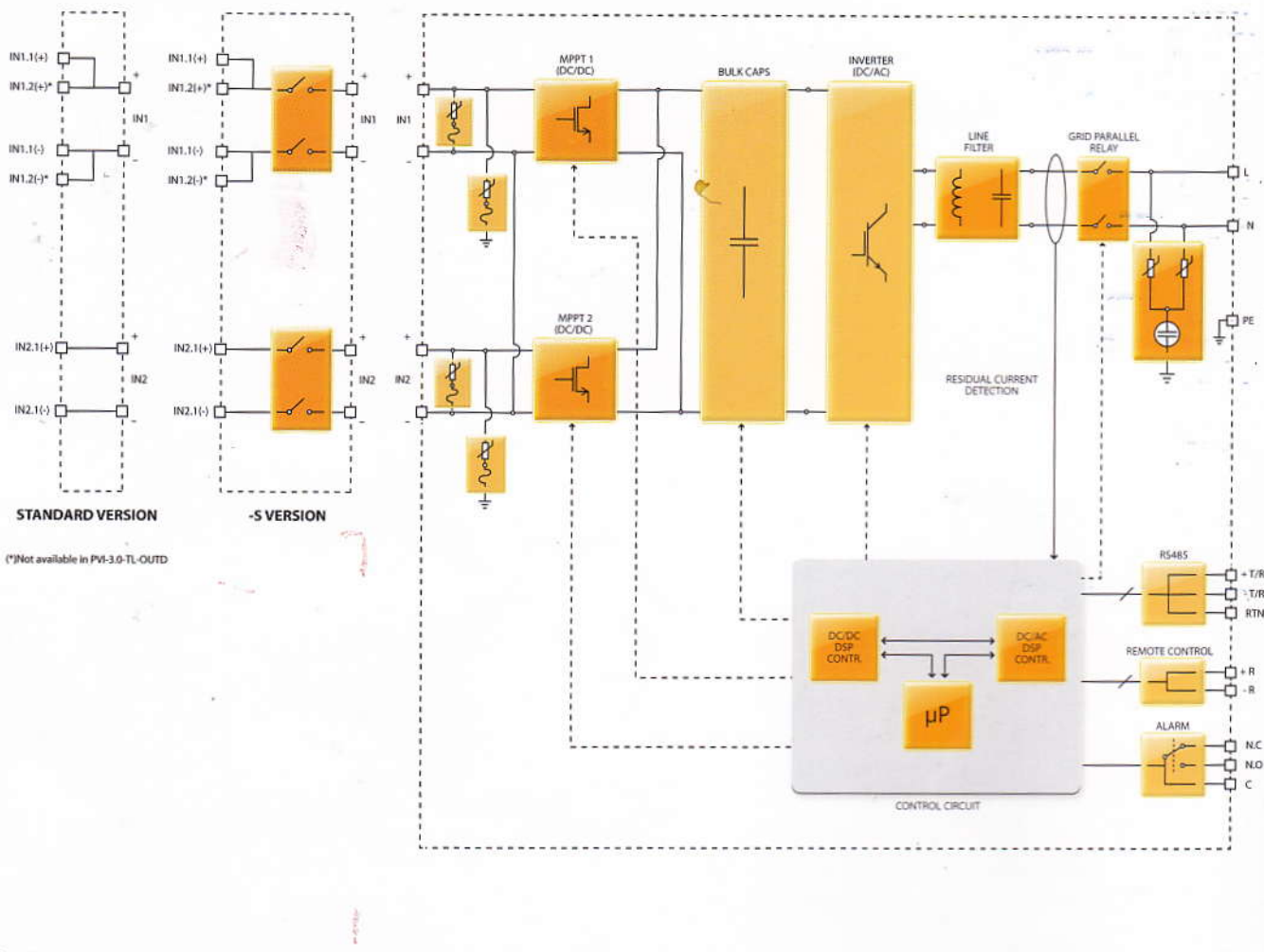
1. The AC voltage range may vary depending on specific country grid standard

2. Maximum Output Current Limited to 16A for G83/1 version

3. The Frequency range may vary depending on specific country grid standard

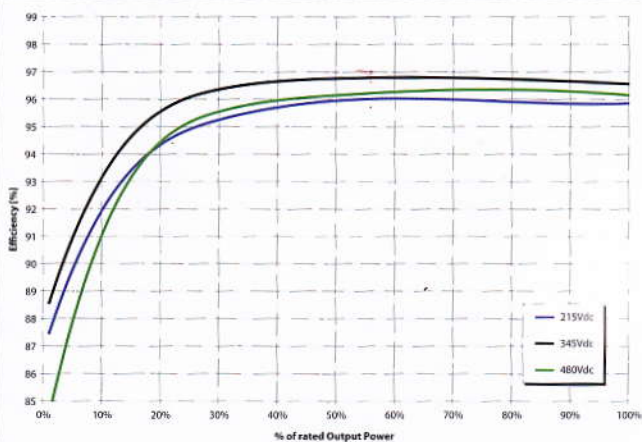
4. Ask sales for availability

BLOCK DIAGRAM OF PVI-3.0-TL-OUTD, PVI-3.6-TL-OUTD AND PVI-4.2-TL-OUTD



Block Diagram and Efficiency Curves

PVI-4.2-TL-OUTD



PVI-4.2-TL-OUTD

