



GRID-TIED PV INVERTERS



DESCRIPTION

The ASP Grid-Tied PV Inverter's offer market leading efficiency and voltage operating range which maximizes energy yield and return on investment for consumers.

Installation time and costs are greatly reduced through integrating the combiner box, AC/DC disconnects, and wire raceway. The design also simplifies service on the unit through a 2-piece modular configuration which allows the wiring box to remain connected and mounted if in the event you need to replace the power module.

- ETL listed (in compliance with UL1741 standards)
- CEC listed (*in process*)

FEATURES AND BENEFITS

Ratings

- 3800W, 4000W, 5000W, 6000W, 7000W

Maximum Energy Harvest

- 97% CEC efficiency
- Broad voltage operating range (105-500 Vdc) for superior performance in low light and high temperature environments
- Transformerless design

Saves Installation Time & Cost

- Integrated PV system AC / DC disconnect switch
- (4) branch circuit-rated negative and positive fused inputs
- Integrated NEC® compliant wire raceway

Versatility in Installation

- Field selectable voltage output: 208/240/277 Vac
- LCD display with nighttime monitoring capabilities.
- NEMA 3R enclosure
- 2-piece modular design



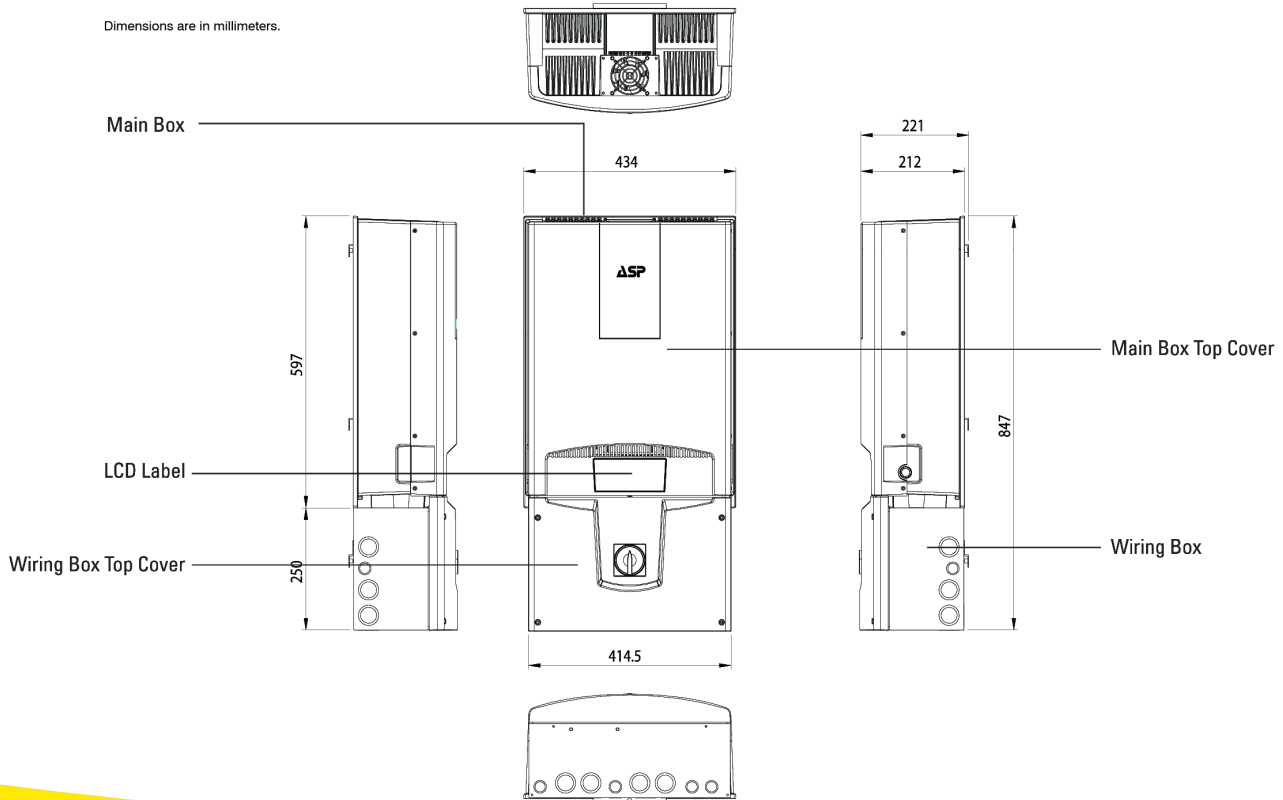
GRID-TIED PV INVERTERS – TECHNICAL DATA

GENERAL SPECIFICATIONS

Model			PV240		PV250	PV260	PV270																																																																													
Nominal Power Output			3800W	4000W	5000W	6000W	7000W																																																																													
Dimension WxHxD (in.)			17.1 x 33.3 x 8.3		17.1 x 33.3 x 8.3 in	17.1 x 33.3 x 8.3 in V	17.1 x 33.3 x 8.3 in																																																																													
Gross Weight			86 lbs	86 lbs	90 lbs	101 lbs	101 lbs																																																																													
Input (DC side)	Internal Combiner / Multi-string	Max. number of strings	4		4	4	4																																																																													
		Terminal block	(+)x4, (-)x4, (G)x1		(+)x4, (-)x4, (G)x1	(+)x4, (-)x4, (G)x1	(+)x4, (-)x4, (G)x1																																																																													
		Admissible conductor size	14 ~ 6 AWG		14 ~ 6 AWG	14 ~ 6 AWG	14 ~ 6 AWG																																																																													
	External Combiner / Single string	Bypass fuse terminal block	(+)x1, (-)x1, (G)x1		(+)x1, (-)x1, (G)x1	(+)x1, (-)x1, (G)x1	(+)x1, (-)x1, (G)x1																																																																													
		Maximum admissible conductor size	4 AWG		4 AWG	4 AWG	4 AWG																																																																													
Output (AC side)		Terminal block	Terminal block labeled with 1, 2, 3 and G		Terminal block labeled with 1, 2, 3 and G	Terminal block labeled with 1, 2, 3 and G	Terminal block labeled with 1, 2, 3 and G																																																																													
		Admissible conductor size	10 AWG		10 AWG	10 ~ 8 AWG	10 ~ 6 AWG																																																																													
			<table border="1"> <thead> <tr> <th rowspan="2">GRID STANDARD</th> <th colspan="4">208V~/240V-3PH-Δ</th> <th colspan="4">240V-SPLIT-PHASE</th> <th colspan="4">277V-3PH-Y</th> <th colspan="4">208V~/120V-3PH-Y</th> </tr> <tr> <th>L1</th><th>L2</th><th>L3</th><th>G</th> <th>L1</th><th>L2</th><th>N</th><th>G</th> <th>L1</th><th>L2</th><th>L3</th><th>N</th><th>G</th> <th>L1</th><th>L2</th><th>L3</th><th>N</th><th>G</th> </tr> </thead> <tbody> <tr> <td>TERMINAL</td> <td>1</td><td>2</td><td>3</td><td>⊕</td> <td>1</td><td>2</td><td>3</td><td>⊕</td> <td>1</td><td>2</td><td>3</td><td>⊕</td> <td>1</td><td>2</td><td>3</td><td>⊕</td> <td>1</td><td>2</td><td>3</td><td>⊕</td> </tr> <tr> <td>WIRE</td> <td>L1</td><td>L2</td><td>—</td><td>L3</td> <td>L1</td><td>L2</td><td>N</td><td>G</td> <td>L1</td><td>N</td><td>—</td><td>G</td> <td>L1</td><td>L2</td><td>N</td><td>G</td> <td>L1</td><td>L2</td><td>N</td><td>G</td> </tr> </tbody> </table>					GRID STANDARD	208V~/240V-3PH-Δ				240V-SPLIT-PHASE				277V-3PH-Y				208V~/120V-3PH-Y				L1	L2	L3	G	L1	L2	N	G	L1	L2	L3	N	G	L1	L2	L3	N	G	TERMINAL	1	2	3	⊕	1	2	3	⊕	1	2	3	⊕	1	2	3	⊕	1	2	3	⊕	WIRE	L1	L2	—	L3	L1	L2	N	G	L1	N	—	G	L1	L2	N	G	L1	L2	N	G
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	L1	L2	L3	G	L1	L2	N	G	L1	L2	L3	N	G	L1	L2	L3	N	G																																																																		
TERMINAL	1	2	3	⊕	1	2	3	⊕	1	2	3	⊕	1	2	3	⊕	1	2	3	⊕																																																																
WIRE	L1	L2	—	L3	L1	L2	N	G	L1	N	—	G	L1	L2	N	G	L1	L2	N	G																																																																

PRODUCT DIAGRAM

Dimensions are in millimeters.





GRID-TIED PV INVERTERS – TECHNICAL DATA

GENERAL SPECIFICATIONS

Model	PV240	PV250	PV260	PV270
Input (DC)				
Nominal DC voltage	360 V	360 V	360 V	360 V
Max. DC voltage	600 V	600 V	600 V	600 V
System start-up voltage	150 V	150 V	150 V	150 V
Shutdown voltage	Typical 80V	Typical 80V	Typical 80V	Typical 80V
MPPT voltage range	105 - 500 V	105 - 500 V	105 - 500 V	105 - 500 V
Full rating voltage range	225 - 500 V	200 - 500 V	200 - 500 V	200 - 500 V
Max. DC current	19A	26A	32A	37A
Number of DC input terminals	4	4	4	4
Output (AC)				
Nominal AC power @ 240Vac & 277Vac	3800W	4000W	5000W	6000W
Nominal AC power @ 208Vac	3800W	3800W	4600W	6000W
Max. AC power @ 240Vac & 277Vac	3800W	4000W	5000W	6000W
Max. AC power @ 208Vac	3800W	3800W	4600W	6000W
Nominal AC voltage	208V / 240V / 277V		208V / 240V / 277V	208V / 240V / 277V
Nominal frequency	60Hz		60Hz	60Hz
Disconnection time of excess operational frequency range	≤0.16 sec		≤0.16 sec	≤0.16 sec
Nominal AC current @ 208Vac	18.3 A	18.3 A	22.1 A	28.9 A
Nominal AC current @ 240Vac	15.8 A	16.7 A	20.8 A	29.2 A
Nominal AC current @ 277Vac	13.7 A	14.4 A	18.1 A	25.3 A
Max. AC current @ 208Vac	18.3 A	18.5 A	22.5 A	30.0 A
Max. AC current @ 240Vac	15.8 A	18.5 A	22.5 A	28.5 A
Max. AC current @ 277Vac	13.7 A	16.4 A	20.5 A	24.6 A
Power Factor	> 0.99		> 0.99	> 0.99
Efficiency				
Peak efficiency	97.5%		97.5%	97.5%
CEC efficiency	97%		97%	97%
General Data				
Topology	Transformerless		Transformerless	Transformerless
Dimensions (W / H / D) inches	17.1 / 33.3 / 8.3		17.1 / 33.3 / 8.3	17.1 / 33.3 / 8.3
Weight (lbs)	86		90	101
Power consumption: standby / night	< 7W / < 0.2W		< 7W / < 0.2W	< 7W / < 0.2W
DC insulation resistance	> 4MΩ		> 4MΩ	> 4MΩ
Enclosure	NEMA 3R		NEMA 3R	NEMA 3R
Heat dissipation	Force air cooling, variable fan speed according to temperature on heat sink			
Operating temperature range	-25 – +50°C		-25 – +50°C	-25 – +50°C
Humidity	0 to 95%, non-condensing		0 to 95%, non-condensing	0 to 95%, non-condensing
Communication	RS232 / Super-485		RS232 / Super-485	RS232 / Super-485
Ground fault protection	Internal GFCI and Isolation detection function, in accordance with UL 1741			
Disconnect	Integrated AC & DC Switch	Integrated AC & DC Switch	Integrated AC & DC Switch	Integrated AC & DC Switch
Certifications	ETL (in compliance with UL1741), CEC (in progress)			
DC Surge protection	4kV		4kV	4kV
AC Surge protection	6kV		6kV	6kV

WIRING BOX KNOCKOUTS

Description	Diameter of Knockout	Quantity
Knockouts on the underside and backside	Combo 1-1/4 in. & 1 in.	4
	Combo 3/4 in. & 1/2 in.	4
Knockouts on the left hand side and right hand side	Combo 1-1/4 in. & 1 in.	3
	Combo 3/4 in. & 1/2 in.	1

Dimensions are in millimeters.

