

The PV series 3P online UPS uses the advanced DSP technology with 16 bits digital IC and DDC control. With PV series, efficiency and reliability are enhanced to the levels unattainable by old analogue technology. Its rugged design and full front access enables reliable operation even in harsh industrial environment.

INPUT & BYPASS	
Wiring	3P + N + PE
Voltage	380 / 400 / 415 Vac ($\pm 20\%$)
Frequency	50 Hz / 60 Hz [Auto detect]
Power Factor	≥ 0.99 at 100% load with harmonic filter
Harmonic Distortion [Thdi]	< 5% with harmonic filter

OUTPUT	
Wiring	3P + N + PE
Nominal Voltage	380 / 400 / 415 Vac
Nominal Frequency	50 Hz / 60 Hz [Auto detect input]
Wave form	Pure Sine Wave
Voltage Regulation	$\pm 1\%$
Frequency Regulation	$\pm 2\%$ (Line sync) / $\pm 0.1\%$ (Free running, adjustable)
Harmonic Distortion [THdv]	< 3% [100% Linear load] / < 5% [100% Non-linear load]
Crest Factor	3 : 1
Transfer Time	0 msec (Mains to Inverter) / 0 msec (Inverter to sync. mains)
Overload Tolerance	600 Min [110%] / 10 Min [125%] / 1 Min [150%]

BATTERY	
Nominal Voltage	360Vdc - 384Vdc (adjustable)
Battery Type	Sealed Maintenance Free [VRLA] / Nickel Cadmium
Charge / Discharge	405 Vdc (Float charge) / 300 Vdc (End of discharge)
Protection	3 level alarm Current limit Temp. compensation

GENERAL	
HMI & Metering	7 inch touch screen LCD display & buzzer
Efficiency	> 92% [Battery Mode] / > 98% [ECO Mode]
Operating ambient	0 deg C to +40 deg C, <90% R.H [non-condensing], <1000 m
Storage ambient	-20 deg C to +65 deg C, <95% R.H [non-condensing], <2000 m
Cooling	Forced air cooling, smart fan system
Noise	52dBA - 58dBA at 1 meter
Ingress protection	IP20 [Standard]
Colour	RAL7016 [Black] / RAL7035 [Grey]

OPTIONS			
Construction	IP42 Cabinet	Single Phase Output	Special colour
Management	Paralleling Card	Common Battery Bank	External Bypass
Communication	SNMP Card	Monitoring Software	Modbus Card

MODEL	PV310	PV315	PV320	PV330	PV340	PV360	PV380	PV3100	PV3120
Power [kVA/kW]	10/8	15/12	20/16	30/24	40/32	60/48	80/64	100/80	120/96
Dimensions [H x W x D] mm	1280 x 600 x 600					1480 x 800 x 800		1800 x 800 x 800	
Weight [kg]	230	250	260	305	345	500	560	610	710

* Specifications may change without notification

STANDARDS

IEC EN 62040, EN60950
EMC (2004/108/EC)
LVD (2006/95/EC)
ISO 9001
CE Mark

SUPPORT

10 years spare parts availability
Standard 1 year warranty
Optional 2 year warranty

CONSTRUCTION

Inbuilt isolation transformer
7" colour touch screen (optional)
Full front access
Dynamic dual bus system
Overload & short circuit protection
Power walk in function

FEATURES

Low input harmonics (Thdi)
High input power factor
High efficiency
MTBF > 200,000 hrs
Advanced Battery Management
Backfeed protection
N+X Paralleling
Event log, 1000 events

