

# TECHNICAL SPECIFICATIONS

MODEL	P3-Pro-15.0	P3-Pro-20.0	P3-Pro-25.0	P3-Pro-30.0
<b>PV INPUT ONLY FOR HYBRID</b>				
Max. Array Power [Wp]	30000	40000	50000	60000
Max. Recommended DC Power [W] <sup>[1]</sup>	7500/7500/7500	10000/10000/10000	12500/12500/12500	15000/15000/15000
Max. DC Voltage [V] <sup>[2]</sup>			1000	
Nominal DC Operating Voltage [V]			750	
Max. Input Current [A]			16+16/16+16/16+16	
Max. Short Circuit Current [A]			20+20/20+20/20+20	
MPPT Voltage Range [V]			150 ~ 850	
MPPT Voltage Range [V] (full load)	170 ~ 850	230 ~ 850	280 ~ 850	340 ~ 850
Start-up Voltage [V]			160	
No. of MPP Trackers			3	
Strings per MPP Tracker			2/2/2	
Max. Inverter Backfeed Current to the Array			0	
<b>BATTERY</b>				
Battery Type			Lithium Battery	
Battery Voltage [V]			150 ~ 800	
Full AC Load Battery Voltage [V]	160 ~ 790	220 ~ 790	270 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]			50+50	
Number of Battery Input			2	
Communication Interface			CAN	
<b>AC OUTPUT</b>				
Nominal AC Power [VA]	15000	20000	25000	30000
Max. Apparent AC Power [VA]	16500	22000	27500	33000
Rated Grid Voltage (AC Voltage Range) [VAC]		400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]		50 / 60 , ±5		
Rated AC Current [A] (Per Phase)	22.7	30.3	37.9	45.5
Max. AC Current [A] (Per Phase)	25.0	33.3	41.7	50.0
Power Factor		1(Adjustable from 0.8 Leading to 0.8 Lagging)		
Export Control		YES		
THDI [%]		<3 @ Rated Power		
<b>AC INPUT</b>				
Max. AC Power [VA]	22500	30000	35000	35000
Rated Grid Voltage (AC Voltage Range) [V]		400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]		50 / 60 , ±5		
Max. AC Current [A] (Per Phase)	34.1	45.5	53.0	53.0
Power Factor		1(Adjustable from 0.8 Leading to 0.8 Lagging)		
<b>EPS OUTPUT</b>				
Max. Apparent AC Power [VA]	15000	20000	25000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	36000
Rated Output Voltage [V]		400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]		50 / 60		
EPS Max. Current [A] (Per Phase)	22.7	30.3	37.9	45.5
Power Factor		1(Adjustable from 0.8 Leading to 0.8 Lagging)		
Parallel Operation		Yes @Max10PCS		
Switch Time [ms]		<10		
THDV [%]		<3 @ Rated Power		
<b>EFFICIENCY</b>				
MPPT Efficiency [%]	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.20	97.20	97.10	97.10
Max. Battery to AC Efficiency [%]	97.20	97.20	97.10	97.10
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10
European Efficiency [%]	96.30	96.30	96.60	96.60
<b>PROTECTION</b>				
PV Reverse Polarity Protection			YES	
Battery Reverse Protection			YES	
Anti-Islanding Protection			YES	
Output Short Protection			YES	
Leakage Current Protection			YES	
Insulation Resistor Detection			YES	
Overvoltage Category		III (AC Side) , II (DC Side)		
Reverse Connect Protection		YES		
Overcurrent Protection / Overtemperature Protection		YES		
AC/DC Surge Protection		Type II/Type II		
AFCI Protection		Optional		
DC Switch		Optional		
String Monitoring Function		Optional		
<b>GENERAL DATA</b>				
Dimensions (W*H*D) [mm]		600*560*225		
Dimension of Packing (W*H*D) [mm]		720*680*370		
Net Weight [kg]		52.5		
Gross Weight [kg]		57.5		
Installation		Wall-mounted		
Operating Temperature Range [°C]		-25 ~ +60 (Derating at 45)		
Storage Temperature [°C]		-40 ~ +70		
Storage/Operation Relative Humidity [%]		0 ~ 95 (No condensation)		
Altitude [m]		<4000		
Protective Class		I		
Ingress Protection		IP65 (for Outdoor Use)		
Standby Consumption [W]		200 for Hot Standby , 20 for Cold Standby		
Standby Mode		YES		
Cooling		Smart FAN Cooling		
Noise Grade [dB]	<45	<45	<55	<55
Inverter Topology		Non-isolated		
Communication Interface		Meter, WIFI, 4G(Optional), DRM, USB, BMS(CAN), RS485, Ethernet, SG ready		
Button		Capacitive Touch Sensor *4		
Buzzer		1, Inside (EPS&Earth Fault)		
<b>STANDARD COMPLIANCE MORE AVAILABLE UPON REQUEST</b>				
Safety		EN 62109-1, EN 62109-2		
EMC		IEC 61000-6-2, IEC 61000-6-3		

\*More technical characteristics are available on demand and customized.

[1] Per MPP max. PV input power 15kW.

[2] For 1000V system, Maximum operating voltage is 950V. PV input voltage greater than 955V, PV overvoltage error will be reported.