

Pro

Pro 20t



Pro 20t
20kW Three-phase All-in-One Residential
Energy Storage System

20 kW

Max. 20kW off-grid output,
supporting any household
loads anywhere

50%

All-in-one design,
5 in 1 integrated switch,
easy installation,
saving 50% installation time

180mm

180mm industry leading
thinnest design, light and
modular design, easy installation,
saving garage space

Specification	Pro 10t	Pro 15t	Pro 20t
Input (DC)			
Recommended max. PV input power	15000W	22500W	30,000W
Max. PV input voltage		1,000V	
Rated PV input voltage		470V	
Start voltage		120V	
MPPT voltage range		140V ~ 950V	
No. Of Independent MPPT inputs	2	3	4
No. Of PV strings per MPPT	1/1	1/1/1	1 / 1 / 1 / 1
Max. input current per string	16A/16A	16A/16A/16A	16A / 16A / 16A / 16A
Max. short-circuit current per MPPT	22A / 22A	22A / 22A / 22A	22A / 22A / 22A / 22A
Battery Data			
Battery voltage		120V ~ 800V	
Max charge / discharge current		45A	
Battery Expansion		1~3 series-connected 7.7 kWh high-voltage battery modules	
AC Data			
Rated AC output power	10000W	15000W	20,000W
Max. AC output apparent power	12000VA	16500VA	20,000VA
Max. AC output current	15A	24A	30.4A
Adjustable power factor		1(0.8leading - 0.8lagging)	
THDI @Full load		< 3%	
AC nominal voltage range		380V/400V,3L/N/PE	
Frequency range		50Hz / 60Hz	
Back-up switching time		<10 ms	
Efficiency			
Max. efficiency / European efficiency	98.2% / 97.7%	98.1% / 97.6%	98.0% / 97.4%
General Data			
Topology (solar / battery)		Transformerless / Transformerless	
Cooling method		Fan cooling	
Noise/Weight		< 45dB/42kg	
Cooling method		Fan cooling	
Dimensions (W * H * D)		730*437*180mm	
Battery Parameters			
Cell Type		LFP(LiFePO ₄)	
Battery Module		172.8V, 45Ah, 7.776kWh	
Cycle life *		6,000 cycles	
Communication		CAN	
Cooling method		Natural convection	
Operating temperature range		Charge: 0~55°C/Discharge: -20~60°C	
Weight		87kg	
Dimensions (W * H * D)		730*510*180mm(No pads included)	
System Parameters			
Degree of protection		IP65	
Relative humidity (Non-condensing)		15%-95%	
Max. operating altitude		2,000	
Display/Monitor		LCD+APP/RS485,WIFI,GPRS	
Warranty		5 Year Product Warranty(optional 10 year), 10 Year Battery Performance Life	
Certification & Standard			
Certification		CB, CE, UKCA, SONCAP, RCM, ROHS	
Standard		IEC/EN 62109-1,IEC/EN 62109-2,IEC 62619,IEC 60730-1 Appendix H,IEC/EN 62368-1,EN IEC61000-6-1/3, IEC 61000-2-2,CISPR 11,IEC 60529,IEC 60068-2-52, AS/NZS4777.2,IEC 60947.1,AS 60947.3,VDE-AR-N 4105,EN 50549-1,G98,G99,UN38.3,MSDS	

Cycle life*:Test Conditions,90%DOD, 0.5C Charge&1C Discharge at+25±2°C.