










Hybrid Inverter | Three Phase | High Voltage

10/15/20kW



PRODUCT FEATURES

 <p>Support 100% Three Phase Unbalance</p>	 <p>SiC Technology 98.2% Efficiency</p>	 <p><10ms On/Off-grid Switchover</p>
 <p>6 Units in Parallel</p>	 <p>150-200% PV Input Power</p>	 <p>Support 184-276V Grid Voltage Range</p>
 <p>2 Independent Battery Ports for Mixture Use of Old & New Battery</p>	 <ul style="list-style-type: none"> • 200% Grid Input Power • 58A Grid Input Current • Supplying to Loads & Charging Battery in Parallel 	 <p>Support Altitude 5000m(>3000m Derating)</p>

Model Name	10000TO	12000TO	15000TO	18000TO	20000TO
Off-grid Output					
Rated Output Power	10 kW	12 kW	15 kW	18 kW	20 kW
Peak Power & Duration	11kVA (60s)	13.2kVA (60s)	16.5kVA (60s)	19.8kVA (60s)	22kVA (60s)
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Rated frequency	50/60Hz				
Rated Output Current	15A	18A	22.5A	27A	30A
Output THDu	<3%				
Grid Parameter					
Max. Input Power from Grid	20kW	24 kW	30 kW	36 kW	40 kW
Max. Input Current from Grid	29A	35A	44A	52A	58A
Rated Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V				
Grid Voltage Range	184–276V / 320–480V				
PV Input					
Max. Input Power	20000Wp	24000Wp	30000Wp	30000Wp	30000Wp
Max. Input Voltage	1000V				
Number of MPPT	2				
Max. Input String per MPPT	2				
MPPT Voltage Range, Starting Voltage	130–960V, 200V				
Max. Input Current	25A/25A				
Short-Circuit Current	30A/30A				
Battery Parameter					
Battery Type	Lithium-ion / Lead-Acid / Sodium-ion (optional)				
Number of Battery Input	2				
Battery Voltage Range	125–800V				
Full Load Battery Voltage Range	210–800V	250–800V	300–800V	360–800V	400–800V
Battery Charging/Discharging Current	25A x 2				
Peak Charging/Discharging Current Duration	35A x 2 (60s)				
Efficiency					
Max. Efficiency	98.2 %				
European Efficiency	97.7%				
Max. Battery Charging/Discharging Efficiency	97.8%				
General Data					
Size (W×H×D), Weight, Noise	573mm × 509mm × 219mm, 35kg, <45dB				
Operating Temperature	–25°C ~ +60°C				
Operating Altitude	5000m (>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection	IP65				
Monitoring	LED/ Wi-Fi / 4G / Bluetooth / RS485				
Communication Port	RS485 / CAN / DRED / Dry Contact / Parallel Port				
Protection	DC Switch; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection Level II, Reverse Polarity Protection (PV & Battery); Lightning Protection				
Certification					
CE-LVD	IEC62109-1&2, EN 62109-1&2, IEC62477-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN62920				
Grid	VDE-AR-N 4105; C 10-11, G98/G99, CEI 0-21; EN50549, PEA, MEA, IEC 62116, IEC 61727, NRS 097-2-1, AS 4777.2, R25, UNE217001, UNE217002, NTS 2.1, NC RfG				