

Three phase solar hybrid inverter 20kW; Battery voltage: 125-800V, IP65, dual battery input, silicon



Support 100% Three
Phase Unbalance



SiC Technology
98.2% Efficiency



2 Independent Battery
Ports for Mixture Use of
Old & New Battery



<10ms On/Off-grid
Switchover



6 Units in Parallel



150-200% PV Input Power



200% Grid Input Power,
58A Grid Input Current
Supplying to Loads &
Charging Battery in Parallel



Support Altitude
5000m (>3000m
Derating)



Support 184-276V
Grid Voltage Range

Specification

p.n.	432003	432004	432005
Off-grid Output			
Rated Output Power	12kW	15kW	20kW
Peak Power & Duration	13.2kVA(60s)	16.5kVA(60s)	22kVA(60s)
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac		
Rated Frequency	50/60Hz		
Rated Output Current	18A	22.5A	30A
Output THDu	<3%		
Grid Parameter			
Max. Input Power from Grid	24kW	30kW	40kW
Max. Input Current from Grid	35A	44A	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	24000Wp	30000Wp	30000Wp
Max. Input Voltage	1000V		
Number of MPPT	2		
Max. Input String Per MPPT	2		
Mppt Voltage Range	130-960V		
Rated Input Voltage	600V		
Starting Voltage	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	250-800V	300-800V	400-800V
Battery Charging/Discharging Current	25A*2		
Peak Charging/Discharging Current-Duration	35A*2-60s		
Efficiency			
Max. Efficiency	98.20%		
European Efficiency	97.70%		
Max. Battery Charging/Discharging Efficiency	97.80%		
General Data			
Size(W*H*D)	573mm*509mm*219mm		
Weight	35kg		
Noise	<45dB		
Operating Altitude	5000m (>3000m Derating)		
Operating Temperature	-25°C ~ +60°C		
Cooling Method	Intelligent Air Cooling		
Ingress Protection Grade	IP65		
Monitoring	LED/WIFI/4G/Bluetooth/RS485		
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port		
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection; AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection: LEVEL II; Reverse Polarity Protection (PV & Battery); Lightning Protection		