

HYBRID SOLAR INVERTER

Delta Pro-6K



LCD Screen, IP65 Protection degree

09

Max. 9 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Compatible with lead-acid batteries and lithium battery energy storage systems

135

Max. charging/discharging current of 135A



Support storing energy from diesel generator



Maximum DC input power 10,000W



Max. AC Output Active Power 6600W



5 years warranty

Model	Delta Pro-6K Hybrid Inverter
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Nominal Battery Voltage	48
Battery Voltage Range (V)	40~65
Max. Charging Current (A)	135
Max. Discharging Current (A)	135
Number of Battery Input	1
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. PV Input Power (W)	10,000 W
Max. PV Input Voltage (V)	500 V
Start-up Voltage (V)	90V
MPPT Voltage Range (V)	70V-540V
Max. PV Input Current (A)	18A+18A
Max. Short-Circuit Current (A)	25A+25A
No.of MPP Trackers	2
No.of Strings per MPP Tracker	1+1
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	6000
Max. AC Input/Output Apparent Power (VA)	6600
Rated AC Input/Output Current (A)	27.3/26.1
Max. AC Input/Output Current (A)	30/28.7
Max. Input Power From Grid	9000W
Max. Continuous AC Passthrough (grid to load) (A)	41A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor Adjustment Range	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
Grid Voltage Range	150V-300V (Adjustable)
Rated Grid Voltage V	220V/230 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	45Hz-55Hz/55Hz-65Hz (Adjustable)
Grid Connection Form	L+N+PE
Total Current Harmonic Distortion THDi	<3% (of Rated power)
DC Injection Current	<0.5% In
Efficiency	
Max. Efficiency (PV to AC)	97.3%
Eur. Efficiency (PV to AC)	96.8%
Max. Efficiency (BAT to AC)	94.3%
Equipment Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Display	LED, LCD
Communication	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN, optional)
General Data	
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating
Relative Humidity	0-100%
Max. Operation Altitude	4000m (>2000m derating)
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Type of Cooling	Natural Cooling
Communication with BMS	RS485; CAN
Weight (kg)	16 Kg
Cabinet Size (WxHxD mm)	367mm*421mm*215mm
Ingress Protection(IP) Rating	IP65
Installation Style	Wall-Bracket
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Warranty	5 Years