

DIAMOND S E R I E S

160A
TRUE MPPT

4.5 KW 6.5 KW

**DIAMOND 5G PV6500 & PV8500
ON/OFF/MKS/KS SOLAR HYBRID INVERTER**



KEY SALIENT FEATURES

- ✓ Introducing 1st Time In Pakistan Real 5th Gen Inverter, Supporting high efficiency Mosfet, Chopper with bigger size
- ✓ DIAMOND Series Inverter supports Multiple operation modes (ON/OFF/MKS/KS)
- ✓ 100% Pure Sine Wave Solar Inverter
- ✓ Output power factor 1.0
- ✓ Optional Wi-Fi available for IOS/Android devices
- ✓ Inverter running with battery & without battery
- ✓ 1 button restore setting options in program (00)
- ✓ Battery equalizations in program (30)
- ✓ Record fault code feature in program (25)
- ✓ Adaptable to main Voltage / generator power
- ✓ Conformal coating to prevent from dust and humidity
- ✓ Built-in automatic electronics breaker for overload & short circuit protection
- ✓ New Color Screen LCD function design with touch buttons
- ✓ Built-in anti dust for harsh environment
- ✓ Compatible with all kinds of Lithium Batteries
- ✓ 98% Real time sharing
- ✓ Overload Protection on 120% Load
- ✓ Surge Capacity 2* Rated Power for 5 Seconds
- ✓ Battery charging current upto 260A (AC+Solar)
- ✓ MPPT Based Solar Charge Controller (160A)
- ✓ High PV input voltage range (90~550 VDC)
- ✓ Two output for normal and heavy load
- ✓ Maximum input current 27A
- ✓ Multiple operation modes (On Grid / Of Grid / Hybrid)
- ✓ Grid-Tied net metering feature with 100% reverse grid feeding
- ✓ Built-in Zero export
- ✓ Designed and Engineered in Taiwan



RGB LIGHTING
To highlight modes
(Charging/Output/Input)



MODEL	DIAMOND 5G - PV6500	DIAMOND 5G - PV8500
Phase	1-Phase	
Maximum PV Input Power	6500 W	8500 W
Rated Output Power	4500 W	6500 W
Maximum Solar Charging Current	160 A	160 A
GRID-TIE OPERATION		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	360 VDC/500 VDC	
Start-up Voltage/Initial Feeding Voltage	90 VDC/120 VDC	
Maximum DC Voltage	90~450 VDC	
Number of MPPT Trackers/Maximum Input Current	27A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	195.5-253 VAC	
Nominal Output Current	20A	29A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49~51 Hz	
EFFICIENCY		
Maximum Conversion Efficiency(Soar to AC)	98%	
TWO LOAD OUTPUT POWER(V2.0)		
Full Load	4500 W	6500 W
Maximum Main Load	4500 W	6500 W
Maximum Second Load(battery mode)	1500 W	2160 W
Main Load Cut Off Voltage	22 VDC	44 VDC
Main Load Return Voltage	27 VDC	54 VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140 VAC/180 VAC	
Acceptable Input Voltage Range	90-280 VAC or 170-280 VAC	
Maximum AC Input Current	30 A	40 A
Nominal operating frequency	50/60Hz	
Surge power	9000W	13000 W
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	PURE SINE WAVE	
Efficiency(DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	24 VDC	48 VDC
Maximum Charging Current (Solar to AC)	160A	160 A
Maximum AC Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension,D x W X H(mm)	420*310*110	
Net Weight(kgs)	10	11
INTERFACE		
Communication Port	RS232/WI-FI/GPRS	
ENVIRONMENT		
Operating Temperature	-10~50 C	

Note: Product specifications are subject to change without further notice



LED STATUS
INDICATION



POWER
FACTOR 1.0



100%
REVERSE
GRID FEEDING



27A
MAX INPUT
CURRENT



LITHIUM BATTERY
COMPATIBLE



MULTIPLE
MODES



TOUCH BUTTON
SCREEN



WI-FI
OPTIONAL