

PR-DY-INS9/10/10.5K-2M1P

Single phase string inverter 9/10/10.5KW

PROSE



Photo for Reference

Part number

PR-DY-INS9/10/10.5K-2M1P	Single phase String Inverter with max. PV input power of 9000W/10000/10500W, 2MPPT
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Features

2 MPP trackers, Max. efficiency up to 97.7%
Zero export application, VSG application
String intelligent monitoring (optional)
Wide output voltage range
Anti-PID function (Optional)
Low start-up voltage of 80V

PV String Input Data

Max. PV Input Power (kW)	13.5	15.0	15.8
Max. PV Input Voltage (V)	550		
Start-up Voltage (V)	80		
MPPT Voltage Range (V)	70-500		
Rated PV Input Voltage (V)	360		

Max. Operating PV Input Current (A)	26+26
Max. Input Short Circuit Current (A)	39+39
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2

AC Output Data

Rated AC Output Active Power (kW)	9	10	10.5
Max. AC Output Apparent Power (kVA)	9.9	11	11.55
Rated AC Output Current (A)	41/39.2	45.5/43.5	47.8/45.7
Max. AC Output Current (A)	45/43.1	50/47.9	52.5/50.3
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un		
Grid Connection Form	L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		

Efficiency

Max. Efficiency	97.7%
European Efficiency	97.2%
MPPT Efficiency	> 99%

Protection

DC Reverse Polarity Protection	YES
AC Output Overcurrent Protection	YES
AC Output Overvoltage Protection	YES
AC Output Short Circuit Protection	YES

Thermal Protection	YES
Insulation Impedance Detection	YES
DC Component Monitoring	YES
Anti-islanding Protection	YES
Residual Current Detection	YES
Surge Protection Level	TYPE II(DC), TYPE II(AC)
DC Switch	YES

General Data

Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	3000
Noise (dB)	≤35
Ingress Protection (IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (W*H*D mm)	330×410×213.5 (Excluding Connectors and Brackets)
Weight (kg)	14.8
Type of Cooling	Natural Cooling
Communication Interface	RS485/RS232
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
Grid Regulation	IEC 61727, IEC 62116, EN 50549, NRS 097, RD 140, UNE 217002, G99
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

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