Wadi WP 30kw, 50kw

- IP65 waterproof and dustproof design
- Wide battery input range 200~900 VDC
- 200A AC passthrough capability only for 50kw
- Parallel operation up to 4 units with common battery
- Built-in WiFi for mobile monitoring (APP is available)
- Two independent AC power sources connected and switched automatically
- User-adjustable charging current up to 50A or 100A based on model
- User-friendly HMI LCD design and easy configuration
- Built-in communication port for BMS (CAN and RS485)

InfiniSolar WP II Three Phase Hybrid Inverter Selection Guide

MODEL	Wadi WP 30kw	Wadi WP 50kw
MAXIMUM PV INPUT POWER	48000 W	65000 W
RATED OUTPUT POWER	30000 W	50000 W
MAXIMUM CHARGING POWER	30000 W	50000 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / DC Voltage Range	720 VDC / 300 VDC ~ 1000 VDC	
Start-up Voltage / Initial Feeding Voltage	300 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	3 / 36A for each	4/ 36A for each
Number of Strings Per MPP Tracker	2	2
GRID/UTILITY OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	
Power Factor	0.9 lag to 0.9 lead	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	96.5%	
European Efficiency@ Vnominal	96%	
OFF-GRID OPER		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	47.9 A	79.8 A
PV INPUT (DC)		
Nominal DC Voltage / DC Voltage Range	720 VDC / 300 VDC ~ 1000 VDC	
MPP Voltage Range	350 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	3 / 36A for each	4/ 36A for each
Number of Strings Per MPP Tracker	2	2
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	97%	
HYBRID OPERATION		
PV INPUT (DC)		
Maximum DC Power	48000 W	65000 W
Nominal DC Voltage / DC Voltage Range	720 VDC / 300 VDC ~ 1000 VDC	
Start-up Voltage / Initial Feeding Voltage	300 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	3 / 36A for each	4/ 36A for each
Number of Strings Per MPP Tracker	2	2
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	
Nominal Output Current	43.5 A per phase	72.5 A per phase
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	47.9 A	79.8 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (DC to AC)	97%	
BATTERY & CHARGER		
Battery Voltage Range	200 ~ 900 VDC	200 ~ 900 VDC
Maximum Charging/Discharging Current	50 A	100 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	290 x 580 x 900	290 x 580 x 900
Net Weight (kgs)	85	90
INTERFACE		
Communication Port	RS-232, USB, dry contact, RS-485, CAN, Wi-Fi	
Intelligent Slot	Optional SNMP or MODBUS	
ENVIRONMENT		
Humidity	0 ~ 100% RH	
Operating Temperature	-20°C to 60°C (>45°C De-rating)	
Altitude	0 ~ 1000 m**	
PROTECTION & CERTIFICATE		
EMI/Safety	IEC 61000, EN 62920, EN 62477, EN62619	
Grid Connection Standard	IEC 61683, IEC 61727, IEC 62116	NRS097-2-1, IEC 61683, IEC 61727, IEC 62116 (EN 50549-1 + -10, CQC)

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.
** Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.