

IP65

HYBRID INVERTER



- IP65 waterproof and dustproof
- Dual outputs for smart load management
- Self-consumption and Feed-In to the grid
- Programmable supply priority for PV, Battery or Grid
- Reserved communication port for BMS (RS485,CAN-BUS or RS232)
- User-adjustable charging Current and voltage
- Programmable multiple operation modes: Grid-Tie, off-grid and Tied-tie with backup
- Parallel operation up to 9 units for 6kw, 6 units for 8k

Hi series High frequency inverter data sheet

Model		HY6KIP65
PV Input (DC)	Maximum PV Input Power	6500 W
	Rated Output Power	6000VA / 6000W
	Maximum Charging Power	6000 W
	Nominal DC Voltage / Maximum DC	550 VDC
	Start-up Voltage / Initial Feeding Voltage	120VDC / 150VDC
	MPPT Voltage Range	120VDC – 450VDC
Grid Utility Output (AC)	Number of MPP Trackers / Max Input	1 × 30A
	Strings Per MPPT Tracker	1
	Nominal Output Voltage	220/230/240VAC
Efficiency	Output Voltage Range	184-264.5VAC or 195.5-253VAC or 184-264.4VAC (Selectable)
	Nominal Output Current	26A
	Max Conversion Efficiency (DC/AC)	97%
AC Input	European Efficiency @ V nominal	96%
	AC Start-up Voltage / Auto Restart Voltage	120-140VAC / 180VAC
	Acceptable Input Voltage Range	90-280VAC or 170-280VAC
Battery Mode Output (AC)	AC Input Current	40A
	Nominal Output Voltage	220/230/240VAC
	Output Voltage Range	184-264.5VAC or 195.5-253VAC or 184-264.4VAC (Selectable)
	Nominal Output Current	26A
Battery & Charger	Efficiency (DC to AC)	93%
	Nominal DC Voltage	48Vdc
	Maximum Solar Charging Current	120A
	Maximum AC Charging Current	120A
	Maximum Charging Current	120A
Physical	Battery Voltage Range	40-60VDC
	Dimensions (DxWxH mm)	192 × 360 × 665
Interface	Net Weight (kg)	22.5
	Communication Ports	USB, RS-232, Dry Contact, RS485, Wi-Fi
Environment	Parallel Function	Yes, up to 9 units
	Humidity	0-95% RH (No condensing)
	IP Degree	IP65
Environment	Operating Temperature	-25°C to 50°C