

## Technical Specification Sheet

Model		AL – 3KW	AL – 5KW	NKD - 10KW
Rated Power		3 KW	5 KW	10 KW
Battery	Battery Voltage	51.2 VDC	51.2 VDC	102.4 VDC
	Voltage of over discharge	46.4VDC	46.4VDC	92.8 VDC
	Battery Capacity	6KWH	10KWH	20 KWH
	High Voltage protection	71.6 VDC	71.6 VDC	116.8 VDC
	Continuous Discharge current	50A	50A	120 A
	High Voltage recovery	68.2 VDC	68.2 VDC	110.4 VDC
	Low voltage protection	44.8 VDC	44.8 VDC	92.8 VDC
MPPT Controller	Controller Types	With maximum power point tracking function controller	With maximum power point tracking function controller	With maximum power point tracking function controller
	Rated Current	40 A	60 A	50 A / 60 A
	Current Limiting Protection	42A	62A	52 A / 62 A
	Rated Voltage	51.2VDC	51.2VDC	102.4 VDC
	System Identification Voltage	DC 36 V – DC 60V	DC 36V – DC 60 V	DC 72 V – DC 180 V
	Operating Voltage Range	DC 65 V – DC 150 V	DC 65 V – DC 150 V	DC 130 V – DC 180 V
	Charge Mode	Three Stages: Constant current (quick charge), constant pressure, floating charge	Three Stages: Constant current (quick charge), constant pressure, floating charge	Three Stages: Constant current (quick charge), constant pressure, floating charge
	Battery Type	LiFePO4	LiFePO4	LiFePO4
	PV Module Power Input	2.1KW	3KW	5.3 KW(50A) / 6.3 KW (60A)
	V max - pv	150 VDC	150 VDC	< 235 VDC
	V Low - pv	36 VDC	36 VDC	120 VDC
	V Star - pv	44 VDC	44 VDC	130 VDC
	V ovet - pv	150 VDC	150 VDC	230 VDC
	Floating Charge Voltage	57.6 VDC	57.6 VDC	110.4 VDC (Can be Customized)
	Average Charging Voltage	No	No	No
	PV Module Utilization	≤ 99.97 %	≤ 99.97 %	≤ 99.97 %
	Machine Efficiency	≥ 96.5 %	≥ 96.5 %	≥ 96.5 %
	Output Regulation Accuracy	±1.5 %	±1.5 %	±1.5 %
	Temperature Coefficient	± 0.02 % /°C	± 0.02 % /°C	± 0.02 % /°C
	Temperature Compensation	14.2 V (Maximum Temperature – 25 °C) * 0.3	14.2 V (Maximum Temperature – 25 °C) * 0.3	14.2 V (Maximum Temperature – 25 °C) * 0.3
Protective Function	Input and output over voltage protection, polarity reverse protection	Input and output over voltage protection, polarity reverse protection	Input and output over voltage protection, polarity reverse protection	