



**ARCEUS 5.8KW**

PURE SINE WAVE SOLAR MPPT BASED INVERTER **PV - 6000**

**PRODUCT KEY FEATURES**

- 👑 Pure sine wave solar MPPT based inverter
- 👑 Wide MPPT input voltage range 40VDC ~ 450VDC
- 👑 Battery independent design
- 👑 Parallel operation up to 9 units (optional for 5.8)
- 👑 Feed-in to the grid function
- 👑 Built-in BMS, Wi-fi stick included
- 👑 Output power factor 1
- 👑 Dual output for smart load management
- 👑 Compatible to AC mains or generator input
- 👑 Multiple protection for AC short-circuit
- 👑 DC short circuit, over current protection
- 👑 Overload protection, galvanically isolated



**Technical Data**

<b>MODEL NAME</b>	<b>ARCEUS-5.8KW</b>
<b>RATED POWER</b>	<b>5800VA/5800W</b>
<b>AC INPUT</b>	
Rated input voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage range (VAC)	90 ~ 280VAC ±3V(App. mode),170 ~ 264VAC ±3V(UPS mode)
Frequency (Hz)	50 / 60 (auto adaptive)
<b>AC OUTPUT</b>	
Rated capacity (KW)	5.8
Peak power (KVA)	5.8
Rated voltage (VAC)	208/220/230/240VAC ±5%
Power factor (PF)	1.0
Frequency	50/60 Hz 10.1%
Switch time (ms)	10 (App. mode) / 10 (UPS mode)
Wave form	Pure sine wave
Overload capacity (batt. mode)	1min @102% ~ 110% load, 10s @ 110% ~ 130% load, 3s @ 130% ~ 150% load, 200ms@> 150% load
Max. efficiency (peak)	>94.0%
Parallel quantity	9 units
<b>CHARGER (PV / AC)</b>	
Solar charger type	MPPT
Max. PV input current / input power	18A /6000W
MPPT range@operating voltage (VDC)	120 ~ 450VDC
Max. PV open circuit voltage (VDC)	510VDC
Max. PV charge current (A)	100A
Max. AC charge current (A)	80A
Max. charge current (PV + AC) (A)	100A
<b>BATTERY</b>	
Normal voltage (VDC)	48
Floating charge voltage (VDC)	54.0
Overcharge protection (VDC)	60
Battery type	Lithium / Lead-acid
<b>INTERFACE</b>	
HMI	5.2" LCD, display running mode/loads/input/output etc
Interface	RS485 / CAN / USB / RS232 / dry contact
Monitoring	Wi-fi (3.6 optional) / 5.8 (included)
<b>GENERAL SPECIFICATION</b>	
Ingress protection	IP20
Operating temperature	0°C to 40°C
Relative humidity	20% to 95% (non-condensing)
Storage temperature	-15°C to 60°C
Net weight (Kg)	9.2
Dimensions, W*H*D (mm)	375*570*200
Max. operating altitude	4000m (derating above 1000m)