



ARCEUS 6.5KW

PURE SINE WAVE SOLAR MPPT BASED INVERTER **PV - 7800**

PRODUCT KEY FEATURES

- 👑 Pure sine wave solar MPPT based inverter
- 👑 Wide MPPT input voltage range 90VDC ~ 550VDC
- 👑 Battery independent design
- 👑 Parallel operation up to 4 units (optional for 6.5)
- 👑 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

MODEL NAME	ARCEUS-6.5KW
RATED POWER	6500VA/6500W
AC INPUT	
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)
AC OUTPUT	
Rated capacity (KW)	6.5
Peak power (KVA)	6.5
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%
Parallel quantity	4 units
CHARGER (PV / AC)	
Solar charger type	MPPT
Max. PV input current / input power	27A / 7800W
MPPT range@operating voltage (VDC)	90 ~ 550VDC
Max. PV open circuit voltage (VDC)	550VDC
Max. PV charge current (A)	120A
Max. AC charge current (A)	100A
Max. charge current (PV + AC) (A)	100A
BATTERY	
Normal voltage (VDC)	48
Floating charge voltage (VDC)	54.0
Overcharge protection (VDC)	60
Battery type	Lithium / Lead-acid
INTERFACE	
HMI	5.2" LCD, display running mode/loads/input/output etc
Interface	RS485 / CAN / USB / RS232 / dry contact
Monitoring	Wi-fi (3.6 optional) / 6.5 (built-in)
GENERAL SPECIFICATION	
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)