

VMIO - SERIES
48V/168000W



Features



High-Efficiency Power Generation

- High-Efficiency Power Generation
- Dual MPPT
- Dual MPPT 36A+36A
- Max. input power: 12600W+12600W



Intelligent Operation and Maintenance

- Intelligent Dual AC output
- Programmable intelligent load
- Support remote OTA



Safe and Reliable

- IP54 design
- 3-year Warranty



User-friendly

- 4.3-inch Colorful Touch Screen
- Intelligent Cloud Control
- Intelligent Cooling Mode
- Maximum 6 units in parallel

Items		VMIO-16.8K48L1	VMIO-16.8K48L2-US
PV (DC Input)	Recommended max. PV input power	25200W/(12600W+12600W)	25200W/(12600W+12600W)
	Max. input voltage(Voc)	500Vdc	500Vdc
	MPPT operating voltage range	85-450Vdc	85-450Vdc
	Number of MPPT	2	2
	No. of Strings per MPPT Tracker	2	2
	Max. input current of MPPT	36A+36A	36A+36A
	Max. short-circuit current per MPPT	54A+54A	54A+54A
Grid (AC Input)	Max input power	27600W	28800W
	Max input current	120A	120A
	Rated grid voltage	230Vac	120/240Vac(split phase)
	Rated grid frequency	50/60Hz	60Hz
	Acceptable range	170-280Vac (for UPS);90-280Vac (APL)	170-280Vac (for UPS);90-280Vac (APL)
Battery Parameters (Bidirection)	Battery type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
	Battery voltage range	40-60Vdc	42-60Vdc
	Rated Battery Voltage	48 Vdc	48 Vdc
	Max. charge/discharge current	300A/300A	300A/300A
	BMS communication mode	RS485; CAN	RS485; CAN
Back-up Output (AC output)	Rated output power	16800W / 16800VA (Twin output)	16800W / 16800VA (Twin output)
	Rated output current	73A	73A
	Rated output voltage / Frequency	220/230/240V (L,N,PE) 50Hz / 60Hz	120/240V (L1,L2,N,PE) 50Hz / 60Hz
	Parallel capacity	Up to 6 unit (100.8kW single or three phase)	Up to 6 unit (100.8kW single or three phase)
	Surge power	2 times of rated power, 5s	2 times of rated power, 5s
	THDv (@ linear load)	< 3%	< 3%
	Switching time	10ms(typical) UPS mode 20ms(typical) APL mode	10ms(typical) UPS mode 20ms(typical) APL mode
Efficiency	Peak efficiency	97.6%	97.6%
	Max. MPPT efficiency	>99%	>99%
Protection	Inner protection	AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Component Monitoring	AC Output Overvoltage Protection, AC Output Short Circuit Protection, AC Output Overcurrent Protection, DC Component Monitoring
	Surge protection	TYPE III(DC), TYPE III(AC)	TYPE III(DC), TYPE III(AC)
	IP rating	IP54	IP54
General Parameters	Operating temperature range	-10 to +60°C	-10 to +60°C
	Relative humidity range	5%~95%	5%~95%
	Max. operating altitude	>2000m derating	>2000m derating
	Standby self-consumption	<20W	<20W
	Installation type	Wall-mounted	Wall-mounted
	Cooling mode	Intelligent Air Cooling	Intelligent Air Cooling
Mechanical Specifications	Communication	RS485;CAN; WI-FI;Dry Port	RS485;CAN; WI-FI;Dry Port
	Display	4.3-Inch Colorful Touch Screen LCD	4.3-Inch Colorful Touch Screen LCD
	Inverter dimensions (L*W*H)	639*524*129MM	785*585*135MM
	Net weight	33kg	42kg
	Carton dimensions (L*W*H)	778*629*213MM	880*680*233MM
	Gross weight	36kg	47kg
	Warranty Period	3 years	3 years