



TES 3/4/5 K



DC INPUT

Recommended max. power of PV array	3 kW	3 kW	3 kW
Max. DC input power	3 kW	3 kW	3 kW
Max. open circuit voltage of PV array	100 V	100 V	100 V
Max. input current of PV array	60 A	60 A	60 A
MPPT range	50~88 V	50~88 V	50~88 V
MPPT efficiency	100%	100%	100%

AC OUTPUT

Rated AC output power	3 kW	4 kW	5 kW ±10%
Max. AC output power	7 kW	7 kW	7 kW
Working voltage range	220 V ±5 %	220 V ±5 %	220 V ±5 %
Working frequency range	50 Hz ± 1%	50 Hz ± 0.5%	50 Hz ± 0.5%
Power factor	0.99	0.99	0.99
THD	< 4%	< 4%	< 4%

OUTPUT LOAD

Overload protection (pure resistance load)	(110%<load<125%)±10%: fault (closed output after 15 minutes) (125%<load<150%)±10%: fault (closed output after 20s) (load>150%)±10%: fault (closed output after 5s)
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PERFORMANCE

Converting efficiency	> 80%
Noise	65 dB

CHARGING

Charging current	MPPT 1~60 A, inverter DC charging 0-45 A
DC charging current	10-45 A
Stop-charging voltage	62 V
Low-voltage protection voltage of battery	43.2 V
Restart loading voltage of battery	50 V

GENERAL DATA

Communication	CAN or RJ45
Display	6 button, 3 LED
Cooling	Air cooling
Operating temperature	0° C - + 40° C
Storing temperature	-15° C - +50° C
Operating altitude	0 - 3,000m
Safety	IP25
Certificates	EMC-EN61000-6-3:2007+AI: 2011, EMC-EN61000-3-1: 2000, EMC-EN61000-3-12:2011, EMC-EN61000-6-2:2005 LVD-EN62109-1: 2010 LVD-EN62109-2: 2011
Weight	425 Kg
Size	1250 mm × 650 mm × 720 mm