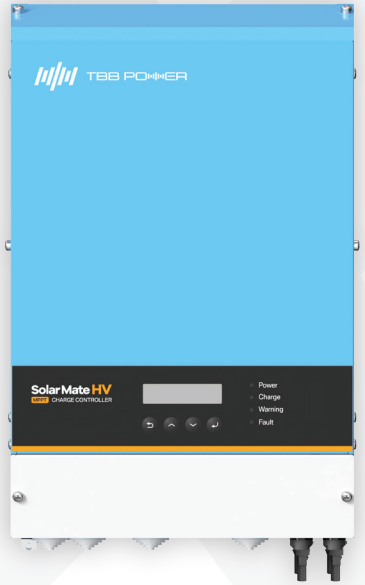
TBB POWER

SOLAR MATE SP600-120



CHARGER	
Battery voltage	48V
Maximum charge current (A)	120
Maximum charge power	7000W @ 57.6V total 5000W @ 57.6V per tracker
Charge voltage 'absorption' (V)	Default: 57.6
Charge voltage 'float' (V)	Default: 54.0
Charger voltage range (V)	40-60
Battery types	AGM / GEL / OPzV / Lead-Carbon / Lithium
Battery temperature sensor	Included
Maximum efficiency	97.0%
Self consumption	80mA @ 48V
SOLAR	
Maximum PV open circuit voltage (V)	600
Start-up voltage (V)	120
PV operating voltage range (V)	120-525
MPPT voltage range (V)	80-525
Number of MPPT trackers	2
Maximum PV input current per tracker (A)	18 + 18
Maximum PV short circuit current per tracker (A)	20 + 20
Allowable maximum PV panel power per tracker (W)	8000 + 8000
MPPT efficiency	>99.9%
PV array insulation resistance detection (Earth fault detection)	Integrated
GENERAL DATA	
Surge Protection	YES
Protection	a) battery voltage too high. b) battery voltage too low. c) temperature too high. d) PV reverse polarity
Dry In port	1x
Programmable relay	1x (28Vdc/4A or 250Vac/2A)
General purpose com. Port	RS485
Operating temperature range	-20°C to 65°C
Relative humidity in operation	95% without condensation
Altitude (m)	3000
MECHANICAL DATA	
Dimension (mm) (max)	484*280*108
Net Weight (kg)	7.8
Cooling	Forced fan
Protection Index	IP21
STRANDARD	
Safety	EN-IEC 62109-1,EN-IEC 62109-2
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3

- Built-in PV array insulation resistance detection (earth fault detection)
- High Voc range (80-525v)
- 2 independent MPPT trackers
- parallel connection up to 15 units