

PV Input	AF10K-T	AF12K-T	AF15K-T	AF17K-T	AF20K-T
Max. DC Input Power (kW)	15	18	22.5	25.5	30
Rated DC Input Voltage (V)	620				
DC Input Voltage Range (V)	150-1000				
MPPT Voltage Range (V)	150-850				
Start-up Voltage (V)	160				
Max. DC Input Current (A)	20x2		20+32	32x2	
No. of MPPT Tracker	2				
Battery Port					
Battery Nominal Voltage (V)	400	450	500	600	700
Battery Voltage Range (V)	150-800				
Max. Charge/Discharge Current (A)	30				
Max. Charge/Discharge Power (W)	11K/10K	13.2K/12K	16.5K/15K	18.7K/17K	22K/20K
Charging Curve	3 Stages				
Compatible Battery Type	Li-ion / Lead-acid				
AC Grid Output					
Nominal AC Output Power (VA)	10000	12000	15000	17000	20000
Max. AC Input Power	15000	18000	22500	25500	30000
Max. AC Output Current (A)	17	21.5	27	30	32
Nominal AC Voltage (V)	230/400				
Nominal AC Frequency (Hz)	50/60				
Power Factor	1 (-0.8-0.8)				
Current THD (%)	<3%				
AC Load Output (Back-up)	AF10K-T	AF12K-T	AF15K-T	AF17K-T	AF20K-T
Nominal Output Power (VA)	10000	12000	15000	17000	20000
Nominal Output Voltage (V)	230/400				
Nominal Output Frequency (Hz)	50/60				
Nominal Output Current (A)	14.5	17.4	21.8	24.8	29
Peak Output Power	11000VA, 60s	13200VA, 60s	16500VA, 60s	18700VA, 60s	22000VA, 60s
THDV (with linear load)	<3%				
Switching Time (s)	<0.01S				
Efficiency	AF10K-T	AF12K-T	AF15K-T	AF17K-T	AF20K-T
Europe Efficiency	97.5%				
Max. Efficiency	98.2%	98.3%			
Battery Charge/Discharge Efficiency	98%				
Protection					
Reverse Polarity Protection	Yes				
Over Current / Voltage Protection	Yes				
Anti-islanding Protection	Yes				
AC Short-circuit Protection	Yes				
Leakage Current Detection	Yes				
Ground Fault Monitoring	Yes				
Grid Monitoring	Yes				
Enclosure Protect Level	IP65/NEMA9X	IP65/NEMA10X	IP65/NEMA11X	IP65/NEMA12X	IP65/NEMA13X
General Data	AF10K-T	AF12K-T	AF15K-T	AF17K-T	AF20K-T
Dimensions (H x W x D) (mm)	558 x 426 x 250 mm				
Weight (kg)	28.5kg				
Topology	Transformerless				
Cooling Concept	Intelligent Fan				
Relatively Humidity	0-100%				
Operating Temperature Range (°C)	-25 to 60 °C				
Operating Altitude (m)	<4000				
Noise Emission (dB)	<30		<40		
Standby Consumption (W)	<5				
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G				
Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2				
EMC	EN61000-6-2, EN61000-6-3				