

AF10K-SL / AF15K-SL / AF20K-SL

HYBRID INVERTER THREE-PHASE

**Possibility of grid connection
(CEI-021)**

**Possibility of connection to
Storage Battery**

HV-BOX3-384



98.4% max. efficiency.
Parallel operation capability with up to 10 units
Easy control via LED display and app Easy Wi-Fi configuration via App
Super wide battery voltage range from 135-750 V.
IP65 degree of protection.
Compact and elegant design with integrated die-casting technology.
Long-term efficient operation with advanced design of heat dissipation.
Intelligent energy management with integrated BMS. Up to 110% unbalanced load.
AC output overload up to 125%.

	AF10K-SL	AF15K-SL	AF20K-SL
DIMENSIONS (L X W X H, MM)	588x426x250	588x426x250	588x426x250
WEIGHT (KG)	22	28	28
TOPOLOGY	Without transformer	Without transformer	Without transformer
COOLING	Intelligent fan	Intelligent fan	Intelligent fan
RELATIVELY HUMIDITY	0-100%	0-100%	0-100%
INTERV. OPERATING TEMPERATURE (°C)	-25 to 60°C	-25 to 60°C	-25 to 60°C
OPERATIONAL ALTITUDE (M)	<4000	<4000	<4000
NOISE EMISSION (DB)	<30	<40	<40
STANDBY CONSUMPTION (W)	<5	<5	<5
COMMUNICATION INTERFACES	LCD,LED,RS485,CAN,Wi-Fi,GPRS,4G	LCD,LED,RS485,CAN,Wi-Fi,GPRS,4G	LCD,LED,RS485,CAN,Wi-Fi,GPRS,4G
EFFICIENCY	AF10K-SL	AF15K-SL	AF20K-SL
EUROPEAN EFFICIENCY	97.5%	97.5%	97.8%
MAXIMUM. EFFICIENCY	98.2%	98.3%	98.3%
BATTERY CHARGING/DISCHARGING EFFICIENCY	98.0%	98.0%	98.0%

THREE-PHASE IBrid

INVERTER

FV INPUT DATA	AF10K-SL	AF15K-SL	AF20K-SL
MAX. INPUT POWER DC (KW)	15	22.5	30
MAX. FV VOLTAGE (V)	1000	1000	1000
NOMINAL DC INPUT VOLTAGE (V)	620	620	620
INTERV. INPUT VOLTAGE DC (V)	150-1000	150-1000	150-1000
INTERV. VOLTAGE MPPT (V)	150-850	150-850	150-850
INTERV. FULL MPPT (V)	500-850	500-850	500-850
STARTING VOLTAGE (V)	160	160	160
MAX. DC INPUT CURRENT (A)	20x2	20x2	32x2
MAXIMUM. SHORT CURRENT (A)	30x2	30x4	48x2
N. OF TRACKERS/STRING MPPT	2/2	2/3	2/4
BATTERY CONNECTION	AF10K-SL	AF15K-SL	AF20K-SL
NOMINAL BATTERY VOLTAGE (V)	400	500	500
INTERV. BATTERY VOLTAGE (V)	150-800	150-800	150-800
MAX. CHARGE/DISCHARGE CURRENT (A)	30	50	50
MAXCHARGING/DISCHARGING POWER (W)	10K	15K	20K
CHARGING CURVE	3 steps	3 steps	3 steps
COMPATIBLE BATTERY TYPE	Lithium/lead ions etc.	Lithium/lead ions etc.	Lithium/lead ions etc.
AC NETWORK	AF10K-SL	AF15K-SL	AF20K-SL
NOMINAL AC OUTPUT POWER (VA)	10000	15000	20000
MAX. INPUT POWER AC	15000	22500	30000
MAX. AC OUTPUT CURRENT (A)	17	27	32
NOMINAL AC VOLTAGE (V)	230/400	230/400	230/400
NOMINAL AC FREQUENCY (HZ)	50/60	50/60	50/60
POWER FACTOR	1 (-0.8-0.8)	1 (-0.8-0.8)	1 (-0.8-0.8)
CURRENT THD (%)	<3%	<3%	<3%
AC LOAD OUTPUT	AF10K-SL	AF15K-SL	AF20K-SL
NOMINAL OUTPUT POWER (VA)	10000	15000	20000
NOMINAL OUTPUT VOLTAGE (V)	230/400	230/400	230/400
NOMINAL OUTPUT FREQUENCY (HZ)	50/60	50/60	50/60
RATED OUTPUT CURRENT (A)	14.5	21.8	29
PEAK OUTPUT POWER	11000VA, 60s	16500VA, 60s	22000VA, 60s
THDV (WITH LINEAR LOAD)	<3%	<3%	<3%
SWITCHING TIME (MS)	<10	<10	<10

PROTECTION

- Reverse polarity protection
- Overcurrent/voltage protection
- Anti-island protection
- AC short-circuit protection
- Leakage current detection
- Ground Fault Monitoring
- Network Monitoring
- Protection level IP 65