

ARM-3K-30 / ARM-5K-30 / ARM-6K-30

HYBRID INVERTER

SINGLE-PHASE HIGH VOLTAGE

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

**Possibility of connection to
Storage Batteries**

HV-BOX3-384



97.6%

Maximum efficiency of conversion

15A

Maximum PV input current

30A

Charging and discharging current

10ms

UPS uninterruptible power supply

Domestic

Single-phase

High voltage



HIGH PERFORMANCE

97.6 per cent maximum conversion efficiency
Support maximum PV input current of 15A , 1-2 MPP trackers
Maximum battery charging and discharging current 30A



LOADING & BACK-UP

Supports up to 110% unbalanced three-phase output
Supports 125% overload for up to 60 seconds off-grid
160% DC oversizing



EASY INSTALLATION AND MAINTENANCE

Plug & Play terminals for easy wiring Power and alarm indicator
Dual-channel data visualisation with OLED display and App
Supports configuration of Wi-Fi connection via APP



FLEXIBLE DESIGN

Wide battery voltage range 135-750V IP65 for indoor and outdoor installation Compact size and elegant appearance

GENERAL DATA			
OVERVOLTAGE CATEGORY	CC:I CA:III	CC:I CA:III	CC:I CA:III
DIMENSIONS (WxHxD)mm	534x418x210	534x418x210	534x418x210
WEIGHT Kg	27.0	27.0	27.0
DEGREE OF PROTECTION	IP65	IP65	IP65
NIGHT ENERGY CONSUMPTION W	<15	<15	<15
TYPE	Without transformer	Without transformer	Without transformer
OPERATING TEMPERATURE RANGE °C	-30 to 60°C	-30 to 60°C	-30 to 60°C
RELATIVE HUMIDITY %	0~100	0~100	0~100
OPERATING ALTITUDE m	3000 (declass.@>3000m)	3000 (declass.@>3000m)	3000 (declass.@>3000m)
COOLING	Natural convection	Natural convection	Natural convection
NOISE LEVELS dB	<25	<25	<25
VISUALISATION	OLED & LED	OLED & LED	OLED & LED
COMMUNICATION	RS485,CAN,Wi-Fi	RS485,CAN,Wi-Fi	RS485,CAN,Wi-Fi
EFFICIENCY	ARM-3K-30	ARM-5K-30	ARM-6K-30
MAXIMUM. EFFICIENCY (%)	97.6	97.6	97.6
EUROPEAN WEIGHTED EFFICIENCY (%)	97.0	97.0	97.0

FV INPUT DATA	ARM-3K-30	ARM-5K-30	ARM-6K-30
MAXIMUM PV POWER INPUT [kW].	4.80	8.00	9.60
INITIAL VOLTAGE [V]	80	80	80
MAXIMUM INPUT VOLTAGE* [V]	600	600	600
NOMINAL INPUT VOLTAGE [V]	360	360	360
VOLTAGE RANGE MPP* [V].	100-550	100-550	100-550
NO. OF MPP TRACKERS	1	2	2
NO. OF DC INPUTS FOR MPPT	1	1/1	1/1
MAXIMUM INPUT CURRENT [A]	15	15/15	15/15
MAX. SHORT-CIRCUIT CURRENT	20	20/20	20/20
BATTERY CONNECTION	ARM-3K-30	ARM-5K-30	ARM-6K-30
TYPE OF BATTERY	Lithium-ion(with BMS)	Lithium-ion(with BMS)	Lithium-ion(with BMS)
VOLTAGE RANGE [V]	85-450	85-450	85-450
MAX. CHARGE/DISCHARGE CURRENT [A]	30/30	30/30	30/30
EXIT	ARM-3K-30	ARM-5K-30	ARM-6K-30
NOMINAL OUTPUT POWER [KW]	3.00	5.00 ₃	6.00
MAX. APPARENT OUTPUT POWER [KVA].	3.30	5.50 ₄	6.60
MAX. APPARENT INPUT POWER** [KVA].	6.00	10.00	10.00
MAX. BATTERY CHARGING POWER [KW].	3.00	5.00	6.00
NOMINAL OUTPUT VOLTAGE	L/N/PE; 220/230/240V	L/N/PE; 220/230/240V	L/N/PE; 220/230/240V
NOMINAL AC MAINS FREQUENCY [HZ]	50/60	50/60	50/60
MAXIMUM OUTPUT CURRENT [A]	15.00	25.00 ₅	28.70
POWER FACTOR	0.8 leading ... 0.8 lagging	0.8 leading ... 0.8 lagging	0.8 leading ... 0.8 lagging
MAX. TOTAL HARMONIC DISTORTION	<3% @Output NOM power	<3% @Output NOM power	<3% @Output NOM power
DCI	<0.5%In	<0.5%In	<0.5%In
BACKUP	ARM-3K-30	ARM-5K-30	ARM-6K-30
NOMINAL OUTPUT POWER [KW]	3.00	5.00	6.00
MAX. APPARENT OUTPUT POWER [KVA]	3.30	5.50	6.60
MAXIMUM OUTPUT CURRENT [A]	15.00	25.00	28.70
BACKUP MOD. ACTIVATION TIME	<10ms	<10ms	<10ms
NOMINAL OUTPUT VOLTAGE	L/N/PE; 220/230/240V	L/N/PE; 220/230/240V	L/N/PE; 220/230/240V
NOMINAL OUTPUT FREQUENCY [HZ]	50/60	50/60	50/60
HARMONIC VOLTAGE DISTORTION	<3% @Linear load	<3% @Linear load	<3% @Linear load

PROTECTION

- DC reverse polarity protection
- Reverse battery input connection protection
- Protection insulation resistance
- Transient protection
- Overheating protection
- Residual current protection
- Anti-islanding protection
- AC overvoltage protection
- Overload protection