FAAB-1212	Changes log （Same as fAAB-1212） based on FAAB-1111
1	Bug fixes : in the previous firmware version FAAB-1111 ,when AC couple function is enabled, the inverter won't discharge the battery to compensate the load consumption during self-use time period
2	Optimization on firmware update procedure.

FAAB-1111	Changes log （Same as fAAB-1111） based on FAAB-1010
1	PV sell to grid function is supported
2	Parameters adjustment on LUMA Grid regulation
3	Logic optimization: With firmware version FAAB-1010,When " run without grid " function is enabled, generator dry contact logic won't take effect.
4	Logic optimization ： Both total EPS voltage and split phase voltage can triger EPS overload issue.
5	Control optimization on casue of BUS voltage high issue when working in AC couple mode.
6	RSD control could be allowed to synchronize in parallel system,
7	Strict zero export is supported and when PV and battery energy are sufficient for load ,the inverter won't exchange energy with utility grid
8	AC couple function modification: AC coupling input will be viewed as PV input , and given same priority as integrated PV power .
9	Logic optimization : In the previous friwmare version FAAB-1010 and with fast zero export enabled, the inverter won't switch to PV charge mode when battery is low energy status .
10	High surge capacity: Pn < P < 1.16* Pn 10min ,1.16* Pn < P < 1.3* Pn 5min
11	Default setting for Lead acid mode: Charge voltage 55V by default , Charge and discharge current limitation 0.5C by default
12	Generator quick start

FAAB-1010	Changes log （Same as fAAB-1010/ eAAB-1010/EAAB-1010） based on FAAB-0D0E
1	Enlarged the grid sell back power limitation ,if power limitation is high than 200% , then real limitation will be 1000% max.
2	Peak-shaving logic optimization
3	Fortress battery protocol optimization :working in leadacid mode where is communication failure issue
4	AC Charge according to SOC or VOlT could be supported in this firmware version
5	Octopus charge function is supported

6	To avoid relays clicking on and off frequently due to grid fluctuation， a return value has been added in this firmware version
7	Hina battery protocol is supported in this firmware version
8	Grid regulation changes :Hawaii changed to HECO , and added KIUC grid regulation.
9	Battery capacity could be showed in the LCD display
10	Optimization on AC coupling function : AC charge and battery discharge will be seamless switching way
11	Fans control logic optimization to reduce fans noise

FAAB-0E0F	Changes log （Same as fAAB-0E0F/ eAAB-0E0F/EAAB-0E0F） based on FAAB-0D0E
1	Fixed the control logic issue when PV energy is low , the inverter would fail to switch work mode from PV charge to battery discharge
2	Enlarge the grid sell back power limitation
3	Non parallel system ,when AC coupling power is higher than load consumption and max.charge power , the inverter will adjust the output frequency to decrease AC coupling power.
4	Micro-grid function optimization to allow generator input via grid port.
5	Peak-shaving logic optimization
6	To avoid relays clicking on and off frequently due to grid fluctuation， a return value has been added in this firmware version
7	Hina battery protocol is supported in this firmware version
8	AC Charge according to SOC or VOlT could be supported in this firmware version
9	Battery capacity could be showed in the LCD display
10	Fans control logic optimization to reduce fans noise

FAAB-0D0E	Changes log （Same as fAAB-0D0E/ eAAB-0D0E/EAAB-0D0E） based on FAAB-0C0D
1	Fixed the logic issue when PV engineer is low , the inverter would fail to switch work mode from PV charge to battery discharge
2	Optimized charge logic of AC coupling input and maximize the use of AC coupling charge
3	Optimized the logic of charge limit in AC charge mode

FAAB-0C0D	Changes log （Same as fAAB-0D0D/ eAAB-0D0D/EAAB-0D0D） based on FAAB-0C0C
1	Adjusted Control logic of Aging test in Luxpower factory

FAAB-0C0C	Changes log
1	Adjusted Control logic of Aging test in Luxpower factory

FAAB-0B0B	Changes log
1	CT direction could be corrected remotely and individually in 3phase parallel system
2	Non battery shared mode ,current limitation will depend on individual battery banks
3	Fixed discharge configuration in LCD: in previous version , discharge power need to be configured twice to take effect and this bug has been fixed in new version.
4	Modified Hawaii Grid reguration : QV curve