Model	15K-AU	20K-AU	
UPS power module			
Input			
Rated input voltage	1 phase 220/230/240V		
Taisa iiipat vallaga	3 phase 380/400/415V		
Input voltage range	160V~300V full load 100~160V liner derating		
Rated input frequency	50Hz/60Hz		
Input frequency range	40 Hz- 70 Hz		
Input frequency phase lock	45 Hz– 55 Hz		
range	54 Hz – 66 Hz		
System compatibility Forth lookage current	TN-S / IT		
Earth leakage current Input power factor (PF)		≤7mA	
Line break time without	>0.995 both 1 phase and 3 phase		
transfer to battery mode	4ms		
Input voltage surge rating	L-N: 405J		
input voitage surge rating	L/N-GND: 445J		
THDi	≤3% linear load		
	≤5% non-linear load		
Input wiring	L+N+G 1 phase		
-	L1+L2+L3+N+G 3 phase		
Input connection Generator Set	Terminal blocks 2 times of UPS Rated Power		
Output	2 times or or	o reace i ewei	
Phase connection	Input-outout	2-1 2-3 1-1	
	Input-output 3-1, 3-3, 1-1 1 phase 220/230/240V		
Rated output voltage	3 phase 380/400/415V		
Rated output frequency		/60Hz	
Rated output apparent	15KVA	20KVA	
power	15KW	20KW	
Rated output active power Max PF	ISKVV		
Voltage variation	+	1%	
Frequency Variation		1Hz	
	≤1% linear load		
THDV	≤3% non-linear load		
Performance classification	VFI-SS-111 (not include ECO mode to inverter mode)		
Load crest ratio		3:1	
Break time	0ms (ESS mode to inverter mode	2ms, ECO to inverter mode 10ms)	
Output voltage DC	±10	0 mV	
offset(Phase to Neutral) Output voltage unbalance		3%	
·			
Output wiring	L+N+G 1 phase L1+L2+L3+N+G 3 phase		
Output connection		al blocks	
•	105% <load≤125%: 10min<="" td=""></load≤125%:>		
Overload capacity line mode	125% <load≤150%: 1min<="" td=""></load≤150%:>		
(at rated voltage)	>150% :0.5s		
Overload capacity battery mode (at rated voltage)	105% <load≤125%: 1min<="" td=""></load≤125%:>		
	125% <load≤150%: 30s<="" td=""></load≤150%:>		
	>150% :0.5s		



Model	15K-AU	20K-AU	
	105% <load≤125%: constant<="" td=""></load≤125%:>		
Overload capacity bypass	105% <load≤125%: constant<br="">125%<load≤150%: 30s<="" td=""></load≤150%:></load≤125%:>		
mode (at rated voltage)		125% <l0ad≤150%: 30s<br="">>150% :0.5s</l0ad≤150%:>	
Output short clearance			
capacity	22.7A±2A@10s	30.3A±2A@10s	
Battery and charger			
EBM Requirement	Power module does not have internal batteries. 2 EBMs required as a minimum to support any backup time		
Maximum compatible EBM Qty.	6 pa	airs of 2 EBMs	
Battery voltage	±240VDC with mid-point neutral by d	efault, configurable to ±192VDC with mid-point neutral	
Battery capacity		9AH	
Backup time	3.8min(±240V) at full load	2.4min(±240V) at full load	
Charging current	2A (0~13A adjus	st by LCD or USB/RS232)	
Charging method	ÁBM		
Temperature compensation	20mv/pcs/ °C		
Battery ripple current (RMS)	<200mA		
recharging time	3 hours to 90	0% (1 pair of EBMs)	
Efficiency			
Online mode		up to 96%	
Battery mode		up to 94%	
ECO or ESS mode	up to 98.8%		
power loss without load		120w	
Other working modes			
CVCF (constant voltage and	no derating at 3-3, 3-1 mode		
constant frequency)		to 60% at 1-1 mode	
Parallel mode	maximum 3 (built-in parallel board)		
ESS mode (energy saving system)	yes		
Interface			
	and author to under I	CD (with gravity conser)	
Display		CD (with gravity sensor)	
language RS232	English, French, German, Spanish, Russian, Portuguese, Italian, Chinese RS232 DB9		
USB	USB 2.0 type-B		
	EPO terminal		
Dry contacts	Programmable Input terminal		
2., 00	Programmable Output terminal		
Communication Slot	MS-type Slot		
EBM auto detection port	RJ 45		
MBP auto detection port	RJ 45		
MBP Load segment control		RJ 45	
port			
Physical dimension			
chasism (H*W*D)	3U (129)*438*589mm		
net weight (Kg)	23.7		
Gross weight (Kg)	27.5		
Installation type	Rack/Tower		



Model	15K-AU	20K-AU	
Environment			
Ambient Service	0°C 50°C (0, 40 no dorating	40°C 50°C doroting to 50°/	
Temperature	0°C ~ 50 °C (0~40 no derating, 40°C~ 50°C derating to 50%)		
Ambient Storage	-25°C~60°C		
Temperature			
Relative Humidity		95%	
Operating Altitude	0~4000m(0~1000m no derating, 1000m~4000m the load should derating 1 % every up 100m)		
Noise	4β 100m) ≤55dB		
Protective level (IP)	IP20		
EMI	C3		
ESD		00-4-2 Level 3	
RS		00-4-3 Level 3	
EFT		00-4-4 Level 4	
Surge		00-4-4 Level 4	
MTBF		150K hours	
Warranty time	2 y	ears	
Certification	·		
Safety	CE/TLC(level 1)/RCM		
Energy saving (only for China)	CQC		
UPS Accessory			
Rail kit	Optional		
Mounting Brackets (Ears)	Standard Offer		
Pedestal Feet	Standa	Standard Offer	
USB cable	Standard Offer		
RS232 cable	Opt	ional	
Parallel cable	Standa	Standard Offer	
Connector jumper for terminal block on different model(1/1,3/1,3/3)	Standard Offer		
Manual	Standard Offer		
Compositivity Cond	Optional:		
Connectivity Card	NETWORK-M2, INDGW-M2, RELAY-MS		
Environmental Module	Optional: EMPDT1H1C2		
EBM Connection Cable	Standard Offer (in EBM box)		
EBM Detection Cable	Standard Offer (in EBM box)		
EBM			
Model	(15K-AU) EBM480	(20K-AU) EBM480	
EBM quantity	0 - 6 pairs of 2 EBMs (Optional)		
Battery quantity	20*12V/9AH		
DC Voltage	±240VDC		
Power Connection	6-pole socket		
Power Cable	Standard Offer		
EBM auto detection port	RJ45		
Detection Cable	Standard Offer		
Fuse	Standard Offer		
Dimensions (H*W*D)	3U(129)*438*589mm		
Net Weight (Kg)	124.2		



Model	(15K-AU) EBM480	(20K-AU) EBM480
Installation type	Rack/Tower	
Ambient Service Temperature	5°C ~ 25 °C	
Ambient Storage Temperature	0°C ~ 35 °C	
Relative Humidity	0 ~ 95%	
Operating Altitude	0~4000m	
Protective level (IP)	IP20	
EBM Accessory		
Rail kit	Optional	
Mounting Brackets (Ears)	Standard Offer	
Pedestal Feet	Use UPS feet	
Manual	Standard Offer	
EBM power cable	Standard Offer	
EBM detection cable	Standard Offer	

