# **3P**Power

Passion Profession Perfection



# PRODUCT CATALOGUE



# FEATURES

#### ADAPTABILITY

Designed to accept a wide range of input voltages and frequency range, this DC UPS is capable to cope with the worst utility conditions. It can eliminate harmful distortion from utility power and withstand all kinds of severe impacts from various loads. It is fully capable to support heavy duty equipment, production equipment and DCS (Distributed Control System) system.

#### INCREASED EFFICIENCY

Increased efficiency leads to higher sustainability, through reduced carbon emissions. With higher efficiency being translated, cooling and electrical losses will be reduced which will minimize operational expenditure costs

#### NEW EDGE DESIGN TOPOLOGY

The true online double conversion scalable modular UPS is designed with distributed Static Bypass to provide better reliability and availability. The design topology of distributed bypass allows individual module to perform as a standalone UPS with smaller footprint

#### COMPREHENSIVE MONITORING

Dry contacts, RS232-1, RS232-2, RS485, Intelligent slots 1, 2 & 3 for SNMP, JBUS & MODBUS are available for users to monitor the system remotely

#### ADVANCED BATTERY MANAGEMENT

ABM system allows flexible battery configuration and 3 steps charged control as well as periodic battery self-test

#### FLEXIBLE HOT SWAPPABLE DESIGN

This unique modular design type of rectifier module and control module allows user to add or replace the modules during live system operation while the other existing module(s) continue protecting the load. This function aims to avoid interruption to the load during any module replacement or system upgrading works are in progress

#### COLORFUL MULTIFUNCTIONAL HMI

7 Inch colorful multifunctional human machine interface touch screen (HMI TFT) provides user with a friendly interface while having complete control to the essential operation parameters, status, alarms and measurements. The MOD Series UPS includes up to 500 events' logs allowing precise & detailed identification of any event

#### MAXIMUM SAFETY FEATURES

Safety features have always been the top priority for our equipment. Our modular UPS is designed with hot swapping features, distributed bypass, input breakers, in-built back-feed protection to be in compliance with all safety regulations world-wide

#### SUITABLE FOR INDUSTRIAL & COMMERCIAL APPLICATIONS



\* Industrial application such as Process and Control system, Industrial Machinery, Instrument and Measurement, Process monitoring, Control and Security



\*Infrastructures application such as Hospital, Airport, Data Centre, Telecommunication, Semiconductor, Water treatment and Rail Transportation



Energy industry application such as Oil & Gas, Petrochemicals, Power Plant, Power Transmission



\* Military application such as Communication and Data Centre

MODEL	MOD33020	MOD33060	MOD33080	MOD33100	MOD33120	MOD33160	MOD33180	MOD33200			
CAPACITY in kVA / kW	20kVA/18kW	60kVA/54kW	80kVA/72kW	100kVA/90kW	120kVA/108kW	160kVA/144kW	180kVA/162kW	200kVA/180kW			
SYSTEM											
System Efficiency @ DCM (Double Conversion Mode)				95	5%						
System Efficiency @ ESM (Energy Saver Mode)				98	8%						
Static Bypass Rating			20	okVA to 200kVA (Dist	tributed Static Bypa	iss)					
External Paralleling		Up to 4 Cabinets can be paralleled									
UPS Topology		Double Conversion									
IP Rating		IP 20 As Standard (Option: Up to IP42 is available upon request)									
Acoustic noise at 1 m, in 25 °C Ambient Temperature	< 70 dBA in DCM, < 55 dBA in ESM										
Altitude (Maximum)		Within 100	00m above sea level				mum 2000m				
Cable Entry	TEDE		Kare Bo	ottom (Customizatio	n is available upon	request)					
MODULAR UPS INPUT PARAME	IEKS			200//400//4	15)/ 2 Dhasa 4)4/						
Rated Input Voltage			290\//+259/+0_459	6) / 400V (+20% to -	15V 3 Phase 4W	to 45%\ 2 Bhaco 4\	v/				
Voltage Tolerance - Rectifier Input  Voltage Tolerance - Bypass Input			3800 (+23/6 t0 -43/		2 -15% / +10%	10 -43%) 3 Filase 4V	v				
Rated Input Frequency					70 Hz						
Frequency Tolerance					+/- 10% (Bypass)						
Input Power Factor @ 100% Load					19%						
Input Current Harmonic Distortion (THDi)					3%						
Rectifier Soft Start					It-in						
Internal Backfeed Protection					It-in						
MODULAR OUTPUT PARAMETE	RS			24.							
Rated Output Voltage Rating			220/380\	/, 230/400V, 240/41	5V (Configurable) 3	Phase + N					
Total Voltage Harmonic Distortion				100% Linear load); <							
			170 (.			ar load)					
Output Power Factor					agging						
Permitted Load Power Factor		0.8 Lagging to 0.8 Leading									
Overload on Inverter	1	02 ~ 110% For 10 mi	inutes, 111 ~ 125% F	or 60 seconds, 126 ^	150% For 10 secon	nds, > 150% Transfe	r to bypass immediat	ely			
Overload on Bypass			< 125% F	or Continuous Oper	ation, 1000% for 20	m second					
BATTERY											
Battery Type				VRLA	/ GEL						
Temperature Compensation					tion						
Battery Nominal Voltage					DC configurable						
Battery Quantity in Cell			1	92 Cells to 240 Cells		ılt)					
Charge Current Limit		10A per UPS Module									
Black/Battery Start Capability				Opt	tion						
COMMUNICATIONS	i	25222			D IDIIC MODDIIC	15 111 5	2				
Comm-slot			for LAN monitor & Co								
Network / SNMP Interface  Monitor Module & Indicators	SNMP card, Built-in external Network Card (monitoring working environment) or Relay card										
	EPO Button (REPO), Touch Screen TFT Central Display, UPS Module LCD Display and LED Indicators										
Audible Alarm				Audible Alarn	n from Beeper						
ACCESSORIES											
Options	SNMP, Network Card, Relay Card External Battery Cabinet or Box c/w Breaker or Fuse Parallel Tie Cabinet, Parallel card (Distribution Confluence Cabinet) Input and / or Output Isolation Transformer / Lightning Protection Device / SPD										
STANDARDS COMPLIED											
Safety				IEC 62040-1 Y	D/T1095-2008						
EMC					2040-2						
Performance					2040-3						
PHYSICAL	1			IEC 02	.0-0-3						
Cabinet Frame IP20			2001	VA Frame customin	red design as nor so	quest					
Rating			2008	20Kva to 200	ved design as per re	quest					
Dimension (W * D * H) in mm			500 * 1100 * 1475 Fo			0 For 10 UPS Modu	les				
			1200 14/5/0		10						
Building Block Components		1	to 10 Units of 20kV			stributed Bypass + F	PDU				
Approx. Weight (KG)  Building Block Components		1	L to 10 Units of 20kV/			stributed Bypass + F	PDU				

MODEL	MOD33030	MOD33090	MOD33150	MOD33180	MOD33210	MOD33240	MOD33270	MOD33300			
CAPACITY in kVA / kW	30kVA/27kW	90kVA/81kW	150kVA/135kW	180kVA/162kW	210kVA/189kW	240kVA/216kW	270kVA/243kW	300kVA/270kW			
SYSTEM							,				
System Efficiency @ DCM (Double Conversion Mode)		95%									
System Efficiency @ ESM (Energy Saver Mode)				9	8%						
Static Bypass Rating			30	OkVA to 300kVA (Dis	tributed Static Bypa	ss)					
External Paralleling		Up to 4 Cabinets can be paralleled									
UPS Topology		Double Conversion									
IP Rating		IP 20 As Standard (Option: Up to IP42 is available upon request)									
Acoustic noise at 1 m, in 25 °C Ambient Temperature		< 70 dBA in DCM, < 55 dBA in ESM									
Altitude (Maximum)		Within 1000m above sea level at 40 °C, Every 100m increase, Capacity decrease 1%, Maximum 2000m									
Cable Entry			Rare Bo	ottom (Customizatio	n is available upon	request)					
MODULAR UPS INPUT PARAME	TERS										
Rated Input Voltage					15V 3 Phase 4W						
Voltage Tolerance - Rectifier Input			380V (+25% to -45%	6) / 400V (+20% to -		:o -45%) 3 Phase 4V	/				
Voltage Tolerance - Bypass Input					e -15% / +10%						
Rated Input Frequency					70 Hz						
Frequency Tolerance					+/- 10% (Bypass)						
Input Power Factor @ 100% Load					99%						
Input Current Harmonic Distortion (THDi)					3%						
Rectifier Soft Start					lt-in						
Internal Backfeed Protection	DC			Bui	lt-in						
MODULAR OUTPUT PARAMETE	KS		220/2001	, 220/400 240/44	5)//Cfi	Dhara M					
Rated Output Voltage Rating				7, 230/400V, 240/41							
Total Voltage Harmonic Distortion			< 1% (1	L00% Linear load); <	5% (100% Non-line	ar load)					
Output Power Factor				0.9 Li	agging						
Permitted Load Power Factor		0.8 Lagging to 0.8 Leading									
Overload on Inverter	1	02 ~ 110% For 10 mi	nutes, 111 ~ 125% Fo	or 60 seconds, 126 ^	150% For 10 secon	ds, > 150% Transfe	to bypass immediate	ely			
Overload on Bypass			< 125% F	or Continuous Oper	ation, 1000% for 20	m second					
BATTERY											
Battery Type				VRLA	/ GEL						
Temperature Compensation				Ор	tion						
Battery Nominal Voltage				384VDC 480V	DC configurable						
Battery Quantity in Cell	192 Cells to 240 Cells (240 Cells as default)										
			1.	92 Cells to 240 Cells	(240 Cells as defau	ilt)					
Charge Current Limit			Ι.		PS Module	ilt)					
Charge Current Limit  Black/Battery Start Capability			1.	10A per U		ilt)					
				10A per U	PS Module	it)					
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot		RS232	for LAN monitor & Co	10A per U Op	PS Module tion		Contacts				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface				10A per U Op ommunication, SNM	PS Module tion IP, JBUS, MODBUS a	nd Expandable Dry					
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot		SNM	for LAN monitor & Co	10A per U Op ommunication, SNM nal Network Card (m	PS Module tion  IP, JBUS, MODBUS anonitoring working of the second secon	nd Expandable Dry environment) or Rel	ay card				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface		SNM	for LAN monitor & Co P card, Built-in exterr	10A per U Op Opmmunication, SNM nal Network Card (maren TFT Central Dis	PS Module tion  IP, JBUS, MODBUS anonitoring working of the second secon	nd Expandable Dry environment) or Rel	ay card				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators		SNM	for LAN monitor & Co P card, Built-in exterr	10A per U Op Opmmunication, SNM nal Network Card (maren TFT Central Dis	PS Module tion IP, JBUS, MODBUS a conitoring working of splay, UPS Module	nd Expandable Dry environment) or Rel	ay card				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm		SNM	for LAN monitor & Cr P card, Built-in exterr ton (REPO), Touch Sc Extern	10A per U Op Ommunication, SNM nal Network Card (n reen TFT Central Di Audible Alarn SNMP, Network nal Battery Cabinet of	PS Module tion  IP, JBUS, MODBUS a nonitoring working o splay, UPS Module I n from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflic	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet)	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Co	10A per U Op Ommunication, SNM nal Network Card (n reen TFT Central Di Audible Alarn SNMP, Network nal Battery Cabinet of	PS Module tion  IP, JBUS, MODBUS a nonitoring working o splay, UPS Module I n from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflic	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet)	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Co	10A per U Op Dommunication, SNM nal Network Card (n creen TFT Central Di Audible Alarn SNMP, Network tal Battery Cabinet, al binet, Parallel card ut Isolation Transfor	PS Module tion  IP, JBUS, MODBUS a nonitoring working o splay, UPS Module I n from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflic	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet)	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Co	10A per U Op Dommunication, SNM nal Network Card (n creen TFT Central Di Audible Alarn SNMP, Network nal Battery Cabinet of abinet, Parallel card ut Isolation Transfor	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Confluer Mer / Lightning Pro	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet)	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED  Safety		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Co	10A per U Op Dommunication, SNM nal Network Card (m reen TFT Central Di Audible Alarn  SNMP, Network nal Battery Cabinet of abinet, Parallel card ut Isolation Transfor	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflumer / Lightning Pro	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet)	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED  Safety  EMC  Performance		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Co	10A per U Op Dommunication, SNM nal Network Card (m reen TFT Central Di Audible Alarn  SNMP, Network nal Battery Cabinet of abinet, Parallel card ut Isolation Transfor	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Confil mer / Lightning Pro ID/T1095-2008	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet)	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED  Safety  EMC		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Cc Input and / or Outp	10A per U Op Dommunication, SNM nal Network Card (m reen TFT Central Di Audible Alarn  SNMP, Network nal Battery Cabinet of abinet, Parallel card ut Isolation Transfor  IEC 62040-1 Y IEC 62	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflight mer / Lightning Pro ID/T1095-2008 2040-2 2040-3	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet) tection Device / SP	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED  Safety  EMC  Performance  PHYSICAL  Cabinet Frame IP20		SNM	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Cc Input and / or Outp	10A per U Op Dommunication, SNM nal Network Card (n reen TFT Central Di Audible Alarn  SNMP, Network nal Battery Cabinet of abinet, Parallel card ut Isolation Transfor  IEC 62040-1 Y IEC 62  VA Frame, customic	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflight mer / Lightning Pro ID/T1095-2008 2040-2 2040-3	nd Expandable Dry environment) or Rel .CD Display and LED or Fuse lence Cabinet) tection Device / SP	ay card I Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED  Safety  EMC  Performance  PHYSICAL  Cabinet Frame IP20  Rating		SNM EPO But	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Cc Input and / or Outp	10A per U Op Dommunication, SNM nal Network Card (n reen TFT Central Di Audible Alarn  SNMP, Network nal Battery Cabinet c abinet, Parallel card ut Isolation Transfor  IEC 62040-1 Y IEC 62  VA Frame, customi: 30Kva to 300	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflower / Lightning Pro IPD/T1095-2008 2040-2 2040-3 20ed design as per reck/VA per frame	nd Expandable Dry environment) or Rel .CD Display and LEC	ay card Indicators				
Black/Battery Start Capability  COMMUNICATIONS  Comm-slot  Network / SNMP Interface  Monitor Module & Indicators  Audible Alarm  ACCESSORIES  Options  STANDARDS COMPLIED  Safety  EMC  Performance  PHYSICAL  Cabinet Frame IP20		SNM EPO But	for LAN monitor & Co P card, Built-in extern ton (REPO), Touch Sc Extern Parallel Tie Ca Input and / or Outp	10A per U Op Dommunication, SNM nal Network Card (n reen TFT Central Di Audible Alarn  SNMP, Network nal Battery Cabinet c abinet, Parallel card ut Isolation Transfor  IEC 62040-1 Y IEC 62  VA Frame, customi: 30Kva to 300 r 5 UPS Modules an	PS Module tion  IP, JBUS, MODBUS a nonitoring working of splay, UPS Module In from Beeper  Card, Relay Card or Box c/w Breaker (Distribution Conflower / Lightning Pro IPD/T1095-2008 2040-2 2040-3 20ed design as per reck/VA per frame	nd Expandable Dry environment) or Rel .CD Display and LEC	ay card Indicators				

MODEL	MOD33040	MOD33160	MOD33200	MOD33240	MOD33280	MOD33320	MOD33360	MOD33400			
CAPACITY in kVA / kW	40kVA/36kW	160kVA/144kW	200kVA/180kW	240kVA/216kW	280kVA/252kW	320kVA/288kW	360kVA/324kW	400kVA/360kW			
SYSTEM	, , , ,		,	,	, ,	,	,	, , , , ,			
System Efficiency @ DCM (Double Conversion Mode)				95	5%						
System Efficiency @ ESM (Energy Saver Mode)				98	8%						
Static Bypass Rating			40	0kVA to 400kVA (Dist	tributed Static Bypa	iss)					
External Paralleling					can be paralleled						
UPS Topology		Double Conversion									
IP Rating		IP 20 As Standard (Option: Up to IP42 is available upon request)									
Acoustic noise at 1 m, in 25 °C Ambient Temperature		< 70 dBA in DCM, < 55 dBA in ESM									
Altitude (Maximum)		Within 100	00m above sea level	at 40 °C, Every 100m	n increase, Capacity	decrease 1%, Maxi	mum 2000m				
Cable Entry			Rare Bo	ottom (Customizatio	n is available upon	request)					
MODULAR UPS INPUT PARAME	TERS										
Rated Input Voltage				380V / 400V / 4	15V 3 Phase 4W						
Voltage Tolerance - Rectifier Input			380V (+25% to -45%	6) / 400V (+20% to -	45%) / 415V(+15%	to -45%) 3 Phase 4V	I				
Voltage Tolerance - Bypass Input				Rated voltage	-15% / +10%						
Rated Input Frequency				40 - 1	70 Hz						
Frequency Tolerance				Rated Frequency	+/- 10% (Bypass)						
Input Power Factor @ 100% Load				> 9	9%						
Input Current Harmonic Distortion (THDi)				<:	3%						
Rectifier Soft Start				Bui	lt-in						
Internal Backfeed Protection				Bui	lt-in						
MODULAR OUTPUT PARAMETE	RS										
Rated Output Voltage Rating			220/380V	, 230/400V, 240/41	5V (Configurable) 3	Phase + N					
Total Voltage Harmonic Distortion			< 1% (1	L00% Linear load); <	5% (100% Non-line	ar load)					
Output Power Factor				0.9 La	agging						
Permitted Load Power Factor	0.8 Lagging to 0.8 Leading										
Overload on Inverter	1	102 ~ 110% For 10 minutes, 111 ~ 125% For 60 seconds, 126 ~ 150% For 10 seconds, > 150% Transfer to bypass immediately									
Overload on Bypass				or Continuous Oper			••	,			
BATTERY											
Battery Type				VRLA	/ GEL						
Temperature Compensation					tion						
Battery Nominal Voltage					DC configurable						
Battery Quantity in Cell			19	92 Cells to 240 Cells		ılt)					
Charge Current Limit		10A per UPS Module									
Black/Battery Start Capability				Opt	tion						
COMMUNICATIONS											
Comm-slot		RS232	for LAN monitor & Co	ommunication, SNM	P, JBUS, MODBUS a	ind Expandable Dry	Contacts				
Network / SNMP Interface	SNMP card, Built-in external Network Card (monitoring working environment) or Relay card										
Monitor Module & Indicators	EPO Button (REPO), Touch Screen TFT Central Display, UPS Module LCD Display and LED Indicators										
Audible Alarm				Audible Alarn	n from Beeper						
ACCESSORIES											
Options	SNMP, Network Card, Relay Card External Battery Cabinet or Box c/w Breaker or Fuse Parallel Tie Cabinet, Parallel card (Distribution Confluence Cabinet) Input and / or Output Isolation Transformer / Lightning Protection Device / SPD										
					. ,						
STANDARDS COMPLIED											
Safety				IEC 62040-1 Y	D/T1095-2008						
				IEC 62	2040-2						
EMC					2040-3						
·				IEC 62							
EMC Performance				IEC 62							
EMC Performance PHYSICAL			400k			quest					
PHYSICAL Cabinet Frame IP20			400k	VA Frame, customiz	ed design as per re	quest					
EMC Performance PHYSICAL				VA Frame, customiz	ed design as per re						
PHYSICAL Cabinet Frame IP20 Rating				VA Frame, customiz 40kVA to 400l 600 * 1100 * 2000	ed design as per re						

MODEL	MOD33050	MOD33100	MOD33200	MOD33300	MOD33350	MOD33400	MOD33450	MOD33500			
CAPACITY in kVA / kW	50kVA/50kW	100kVA/100kW	200kVA/180kW	300kVA/300kW	350kVA/350kW	400kVA/400kW	450kVA/450kW	500kVA/500kV			
SYSTEM		-									
System Efficiency @ DCM (Double Conversion Mode)		95.5%									
System Efficiency @ ESM (Energy Saver Mode)				9	8%						
Static Bypass Rating			50	kVA to 500kVA (Dis	tributed Static Bypa	ass)					
External Paralleling		Up to 4 Cabinets can be paralleled									
UPS Topology				Double C	onversion						
IP Rating			IP 20 As Sta	ndard (Option: Up t	o IP42 is available u	ipon request)					
Acoustic noise at 1 m, in 25 °C Ambient Temperature	< 70 dBA in DCM, < 55 dBA in ESM										
Altitude (Maximum)  Cable Entry	Within 1000m above sea level at 40 °C, Every 100m increase, Capacity decrease 1%, Maximum 2000m  Rare Bottom (Customization is available upon request)										
MODULAR UPS INPUT PARAMET	TERS										
Rated Input Voltage				380V / 400V / 4	15V 3 Phase 4W						
Voltage Tolerance - Rectifier Input			380V (+25% to -15%	6) / 400V (+20% to -	15%) / 415V(+20%	to -15%) 3 Phase 4V	v				
Voltage Tolerance - Bypass Input				Rated voltage	e -15% / +10%						
Rated Input Frequency				40 -	70 Hz						
Frequency Tolerance				Rated Frequency	+/- 10% (Bypass)						
Input Power Factor @ 100% Load				> 9	99%						
Input Current Harmonic Distortion (THDi)				< -	4%						
Rectifier Soft Start				Bui	lt-in						
Internal Backfeed Protection		Built-in									
MODULAR OUTPUT PARAMETE	RS										
Rated Output Voltage Rating			220/380V	, 230/400V, 240/41	5V (Configurable) 3	Phase + N					
Rated Output Frequency	50Hz or 60Hz										
Output Power Factor				1	.0						
Total Voltage Harmonic Distortion	< ±1% (100% Linear load); < ±2% (100% Non-linear load)										
Overload on Inverter	102 ~ 110% For 10 minutes, 111 ~ 125% For 60 seconds, 126 ~ 150% For 10 seconds, > 150% Transfer to bypass immediately										
Overload on Bypass		< 125% For Continuous Operation, 1000% for 20m second									
BATTERY				·	•						
Battery Type				VRLA	/ GEL						
Temperature Compensation					tion						
Battery Nominal Voltage			384VD0			figurable					
Battery Quantity in Cell		384VDC (±192VDC) 480VDC (±240VDC) configurable  192 Cells to 240 Cells (240 Cells as default)									
Charge Current Limit		12A per UPS Module									
Black/Battery Start Capability				Ор	tion						
COMMUNICATIONS											
Comm-slot		RS2	32 for LAN monitor 8	k Communication, S	NMP, MODBUS and	Expandable Dry Co	ntacts				
Network / SNMP Interface	SNMP card, Built-in external Network Card (monitoring working environment), Relay card										
Monitor Module & Indicators	EPO Button (REPO), Touch Screen TFT Central Display, UPS Module LCD Display and LED Indicators										
Audible Alarm				Audible Alarn	n from Beeper						
ACCESSORIES											
Options	SNMP, Network Card, Relay Card External Battery Cabinet or Box c/w Breaker or Fuse Parallel Tie Cabinet, Parallel card (Distribution Confluence Cabinet) Input and / or Output Isolation Transformer / Lightning Protection Device / SPD										
STANDARDS COMPLIED											
Safety				IEC 62040-1 Y	D/T1095-2008						
EMC				IEC 62	2040-2						
Performance				IEC 62	2040-3						
PHYSICAL			5001	1/A Frame	and docing	a act					
Cabinet Frame IP20			500k	VA Frame, customiz		quest					
Rating  Dimension (W * D * H) in mm				50kVA to 500 600 * 1100 * 2010	kVA per frame	ic .					
Dimension (W * D * H) in mm					1020 100PS	:5					
Approx. Weight (KG)  Building Block Components		4	L to 10 Units of 50kV/			stributed Punass : 5	חחו				

### **3P Power One Stop Solution**



**3P**Power

Passion Profession Perfection

**3P POWER PTE. LTD.** 

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