

MD-25-01 - Uninterruptible Power Supply (UPS) and air-cooling systems



rt ne	Specifi	cations	Technical specification proposed	Q-ty	Unit price w/o TVA, EURO	Total p w/o T EUR
	Lo	ot1				
15- 1.1 Gen	neral UPS requirements:		Data sheet for Liebert® ITA2 20 kVA	2 units	8100	1620
VA			Tip On-line double conversion		0200	
UPS Top	pology	Tip On-line double conversion according	Classification according CEI EN 62040-3			
	or a repellegy	CEI EN 62040-3 VFI-SS-111	is VFI-SS-111			
UPS typ	ne	For installation on IT Rack	For installation on IT Rack			
	tput power	11-15-20 kVA (SW upgradable)	10-15-20 kVA (SW upgradable)			
	al input voltage	380V/400V/415V	380V/400V/415V			
	oltage range without battery					
1 .	ge depending on load %	173-498 V	173-498 V			
	al input frequency	50/60 Hz	50/60 Hz			
	equency range	40-70 Hz	40-70 Hz			
		0,99	0.99			
		≤3 %	≤3 %			
IIID at I	THD at full linear load (THDI%) Nominal output voltage	380/400/415 or 220/230/240 V selectable				
Nomina		at installation	selectable at installation			
		105% for 60 min;	105% for 60 min;			
		125% 5min;	125% 5min;			
Inverter	r overload capacity at 25°C	150% for 1 min,	150% for 1 min,			
D I- 1	annuarian afficieres	> 150%, 200ms	> 150%, 200ms			1
	conversion efficiency	96.20%	96.20%			
	ode Efficiency	99%	99%			1
	s voltage tolerance	-50	selectable, from +20% to -40%			
	frequency tolerance	+/-10%	+/-20% (+/-10% selectable)			
		24-40	24-40			
	charger min. current	12 A	13A			
	connection of UPS	Up to 4 units	4 unit			
	t 1 m (dBA)	≤59 dBa	≤58 dBa			
Ventilat		Face to back	Front to back			
Protecti	ion IEC (60529)	IP20	IP20			
	configuration:					
UPS bac and PF :	ck-up time at 100% load 12 KW =1	6 - 8 min.	8 min.			
Battery	type/service life	AGM/10 years	AGM/10 years			
Battery	voltage temperature	Included	Included			
Room te	emperature and relative humidity	Included	Included			
Etherne	et interface for monitoring	Protocol SNMP	Protocol SNMP			
Sliding k	kit for UPS and battery	YES	YES			
By-pass		Electronic and Manual	YES			
Input Po	OD	Protection CB/Input/ Output/ Battery, By-	Protection CB/Input/ Output/ Battery,			
iiiput Pt		pass switch	By-pass switch			
Load po	ower distribution	YES	YES			
			Rack/Tower design delivered with rack			
1 -	ower design delivered with rack		mount: UPS Liebert® ITA2 20 kVA - 3U,			l
	UPS/ input POD/ Load		2xExtension Battery Modul - 2x3U,			
	ition dimension/Battery sets		Modul POD - 3U			
accesso	ries	211/211/211/611/411	Load POD - 3U			
4000000	71163					
		3U/3U/3U/6U (4U) EN/IEC/AS 62040-1 EN/IEC/AS 62040-2				
	l standards	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2,	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2,			
General	l standards	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2,	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2,			
General	l standards juirements to supplier:	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111			
General 1.3 Req Status o	I standards uirements to supplier: of official distributor and service ce	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2,	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service			
General 1.3 Req Status of Moldov Copy of	I standards uirements to supplier: of official distributor and service ce va f engineer certificate for installation	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are			
1.3 Req Status of Moldov Copy of equipm	l standards uirements to supplier: of official distributor and service ce ra f engineer certificate for installation ra	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached.			
General 1.3 Req Status of Moldov Copy of equipm SLA 24/	l standards juirements to supplier: of official distributor and service ce ra f engineer certificate for installation tent's	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES			
1.3 Req Status of Moldow Copy of equipm SLA 24/ Stock of	l standards uirements to supplier: of official distributor and service ce ra f engineer certificate for installation installation installation	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES			
1.3 Req Status o Moldov Copy of equipm SLA 24/ Stock of Installat	l standards uirements to supplier: of official distributor and service ce of engineer certificate for installation ient's 24 f replacement spares tion services and materials included	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type Id in the offer	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES YES			
1.3 Req Status o Moldov Copy of equipm SLA 24/ Stock of Installat	l standards uirements to supplier: of official distributor and service ce of engineer certificate for installation tent's 24 f replacement spares tion services and materials included tty - min. 24 months from installation official distributor official distrib	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type Id in the offer	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES			
1.3 Req Status o Moldov Copy of equipm SLA 24/ Stock of Installat Warran 1.4 Deli	l standards uirements to supplier: of official distributor and service ce va f engineer certificate for installation ient's 24 f replacement spares tion services and materials included ity - min. 24 months from installation ivery and payment conditions:	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type Id in the offer In the offer In the offer In the offer	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES YES YES YES			
1.3 Req Status c Moldov Copy of equipm SLA 24/ Stock of Installat Warran 1.4 Deli	l standards uirements to supplier: of official distributor and service ce va f engineer certificate for installation tent's 24 f replacement spares tion services and materials included ty - min. 24 months from installation tery and payment conditions: y time: 4 weeks (after receiving 50%)	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type Id in the offer	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES YES YES YES YES			
1.3 Req Status of Moldov Copy of equipm SLA 24/ Stock of Installat Warran 1.4 Deli Delivery Delivery	I standards Juirements to supplier: of official distributor and service ce va f engineer certificate for installation lent's 24 f replacement spares tion services and materials included ty – min. 24 months from installation livery and payment conditions: by time: 4 weeks (after receiving 509 by address: 78, 31 August 1989 str. 0	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type Id in the offer In date If pre-payment) Individual of Moldova, of 310a	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES YES YES YES			
1.3 Req Status of Moldov Copy of equipm SLA 24/ Stock of Installat Warran 1.4 Deli Delivery Paymen	I standards Juirements to supplier: of official distributor and service ce ya f engineer certificate for installation nent's 1/24 f replacement spares tion services and materials included ty – min. 24 months from installation ivery and payment conditions: y time: 4 weeks (after receiving 50% y address: 78, 31 August 1989 str. Cont terms: 50% pre-payment and 50%	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 Inter of manufacturer in Republic of In, maintenance and repair of offered type Id in the offer In date If pre-payment) Individual of Moldova, of 310a	EN/IEC/AS 62040-1, EN/IEC/AS 62040-2, CEI EN 62040-3 VFI-SS-111 YES, Certificate of distributor and service center are attached. YES, Copy of engineer certificate are attached. YES YES YES YES YES YES			

	Price should be given excluding VAT		YES			
	Lo	ot 2				
First	1.1 General cooling unit requirements:	Data sheet for Liebert HPSC14L + HPSE14	1 unit	13800	138	
Unit:	Cooling principle	Direct expansion	Direct expansion			
14kW	Expansion device	Thermostatic valve	Thermostatic valve			
	Refrigerant	R407C or analogous	R407C			
	Mounting of indoor unit	Ceiling mounting	Ceiling mounting			
	Mounting of outdoor unit	Wall or Floor	Wall or Floor			
	Main power supply	400/3N/50 (or similar)	400/3N/50			
	Compressor type/quantity	scroll / 1 or analogous	scroll / 1			
	Piping length from indoor to outdoor unit		Max. 50 m			
	Vertical distance	Max 20 m	Max 20 m			
	Operation temperature limits	-30/+50°C	-30/+50 grad C			
	Condenser fan Variable speed		Variable speed			
	1.2 Cooling unit configuration:	Langua	44.5004			
	Total cooling capacity	14 KW	14,6KW			
		Cold air direction vertical from top to	Cold air direction vertical from top to			
	Indoor unit airflow	bottom	bottom			
		Hot air aspiration horizontal from selling level	Hot air aspiration horizontal from selling level			
	Outdoor sound pressure level	Not more than 58 dBa	56 dBA			
	Indoor sound pressure level	~ 63 dBa	63 dBA			
	Protection switches	Low and High pressure	Low and High pressure			
	Temperature setpoint	23	23	-		
	Filter type/Efficiency	Pleated/G4 or analogous	Pleated/G4 or analogous			
	Clogged filter pressure switch	Yes	Yes			
	Free-cooling option	Yes / direct free cooling	Yes / direct free cooling			
	Ethernet interface for monitoring	Protocol SNMP	Protocol SNMP	†		
	Display	Yes	YES			
	Dry contacts	Yes	YES	1		
	Fan type	EC	EC EC			
	Filter spare	YES	YES			
	Filter Spare	TES	TES			
	1.2 Postuiroments to sumplicy.					
	1.3 Requirements to supplier: Status of official distributor and service center of manufacturer in Republic of		YES, Certificate of distributor and service			
	Moldova		center are attached.			
	Copy of engineer certificate for installation, maintenance and repair of offered type					
1			YES, Copy of engineer certificate are			
	equipment's		attached.			
	SLA 24/24		YES			
	Stock of replacement spares		YES			
	Installation services and materials included in the offer		YES			
	Warranty – min. 24 months from installati	on date	YES			
	1.4 Delivery and payment conditions:					
1	Delivery time: 4 weeks (after receiving 50% pre-payment)		YES			
	Delivery address: 78, 31 August 1989 str. Chisinau, Republic of Moldova, of. 310a Payment terms: 50% pre-payment and 50% final payment after delivery and		YES			
1	1 ' ' '	VEC				
	acceptance of goods (payment conditions	YES				
1	Price should be given excluding VAT		YES			
+		Total price w/o TVA EURO				3
1		I TOTAL PLICE W/O I VA EURO	1		1	1 3

Signed	David Veaceslay,

as director "SYNOTECH GLOBAL SERVICES" SRL