

**RELATÓRIO DE INSPEÇÃO
DE PAINÉIS FOTOVOLTAICOS
E DE INVERSORES CC/CA**

Cod.: 2015-06-001

Solicitante:

**SIMPLIFIC PAVARINI DISTRIBUIDORA de TÍTULOS e VALORES
MOBILIÁRIOS Ltda.**

Proprietário:

SPE BRASIL SOLAIR LOCAÇÃO e ARRENDAMENTO de PAINÉIS SOLARES S.A



1. Locais das inspeções:

1.1. Filial João Pessoa:

Av. Dr. Walter Bellian, s/n, Quadra 37, Lote 1420
Distrito Industrial – João Pessoa – PB
CEP: 58.082-005

1.2. Filial Teresina:

Rua Castelo do Piauí, 2545
Memorare – Teresina – PI
CEP: 64.009-330

1.3. Filial São Gonçalo:

Rua Frederico Gonçalves, 54 – Galpão 02
Santa Luzia - São Gonçalo – RJ
CEP: 24.722-810



2. Características dos objetos inspecionados:

Os objetos inspecionados são componentes de sistemas fotovoltaicos para geração de energia elétrica. São os objetos desta inspeção painéis fotovoltaicos e inversores de corrente contínua para corrente alternada (CC/CA).

2.1. Especificações PAINÉIS FOTOVOLTAICOS:

Painel solar policristalino fotovoltaico

Modelo: BSL 240W - P3

Fabricante: BRASIL SOLAIR – LINUO;

Dimensões: 992mm X 1650mm X 40mm;

Potência: 240W;

2.2. Especificações INVERSORES CC/CA:

Inversor CC/CA, 2 MPPT,

Modelo: BSL-SUNUNO TL 5K – SAJ

Fabricante: BSL-SUNUNO

Potência: 5kW



3. Descrição do Armazenamento:

3.1. Filial João Pessoa:

Na filial João Pessoa foi verificado que os materiais estão armazenados em um galpão fechado com 3500m², ventilado, com cobertura em bom estado, iluminação e vigilância. Os produtos inspecionados estão paletizados com empilhamento duplo, e mantidos íntegros em suas embalagens originais. Foram apresentadas notas fiscais, e listagem contendo o número de série dos PAINÉIS FOTOVOLTAICOS lá armazenados. Abaixo as fotos do local.



Foto 3.1.1 – Vista do portão



Foto 3.1.2 – Vista dos fundos do galpão





**Foto 3.1.3 Lista com os números de série do conteúdo das caixas e identificação do palete
fica afixada na parte externa da caixa – Galpão de João Pessoa**

3.2. Filial Teresina:

Na filial Teresina foi verificado que os materiais estão armazenados em um galpão fechado com 800m², ventilado, com cobertura em bom estado, iluminação e vigilância. Os produtos inspecionados estão paletizados com empilhamento duplo, e mantidos íntegros em suas embalagens originais. A informação do conteúdo de cada caixa está afixado do lado de fora, informando o número do palete e o número de série de cada um dos painéis. Foram apresentadas notas fiscais, e listagem contendo o número de série dos PAINÉIS FOTOVOLTAICOS e dos INVERSORES CC/CA lá armazenados. Abaixo as fotos do local.



Foto 3.2.1 – Vista do setor A e B do galpão de Teresina

A handwritten signature in blue ink, consisting of a stylized, cursive script.



Foto 3.2.2 – Vista do setor C do galpão de Teresina





Foto 3.2.3– Lista com os números de série do conteúdo das caixas e identificação do palete fica afixada na parte externa da caixa – Galpão da filial Teresina;

3.3. Filial São Gonçalo:

Na filial São Gonçalo foi verificado que os materiais estão armazenados em um galpão fechado com 450m², ventilado, com cobertura em bom estado, iluminação natural e vigilância. Os produtos inspecionados estão paletizados com empilhamento duplo, e mantidos íntegros em suas embalagens originais. A informação do conteúdo de cada caixa está afixado do lado de fora, informando o número do palete e o número de série de cada um dos painéis. Foram apresentadas notas fiscais, e listagem contendo o número de série dos PAINÉIS FOTOVOLTAICOS lá armazenados. Abaixo as fotos do local.



Foto 3.3.1 – Vista do galpão da filial São Gonçalo





Foto 3.3.2 – Detalhe de lista com os números de série dos equipamentos dentro da caixa e da identificação do palete – Galpão da filial São Gonçalo;



4. Análise técnica:

4.1. Filial João Pessoa:

Após inspeção aleatória dos painéis fotovoltaicos armazenados na filial de João Pessoa, foi constatado que os conteúdos das embalagens estão em conformidade com as especificações técnicas definidas nos itens 2.1 deste relatório;

Foram recebidos 28224 painéis fotovoltaicos, cada qual com capacidade de geração de 240W, que totalizam 6.773.760W ou aproximadamente 6.774kW;

4.2. Filial Teresina:

Após inspeção aleatória dos painéis fotovoltaicos e dos inversores CC/CA na filial de Teresina em caixas em diferentes posições do galpão, foi constatado que os equipamentos inspecionados estão em conformidade com as especificações técnicas definidas nos itens 2.1 e 2.2 deste relatório;

Foram recebidos nesta filial 13.328 painéis fotovoltaicos, cada qual com capacidade de geração de 240W, que totalizam 3.198.720W ou aproximadamente 3.199kW;

Foram recebidos nesta filial 640 inversores CC/CA, cada qual com capacidade de 5kW, que totalizam 3.200.000W ou aproximadamente 3.200kW;

4.3. Filial São Gonçalo:

Após inspeção aleatória dos painéis fotovoltaicos na filial de São Gonçalo em caixas em diferentes posições do galpão, foi constatado que os equipamentos inspecionados estão em conformidade com as especificações técnicas definidas nos itens 2.1 deste relatório;

Foram recebidos nesta filial 8.624 painéis fotovoltaicos, cada qual com capacidade de geração de 240W, que totalizam 2.069.760W ou aproximadamente 2,070kW;



5. Conclusão:

- Os painéis fotovoltaicos inspecionados têm as seguintes características:

Painel solar policristalino fotovoltaico
Modelo: BSL 240W - P3
Fabricante: BRASIL SOLAIR – LINUO;
Dimensões: 992mm X 1650mm X 40mm;
Potência: 240W;

- Os inversores CC/CA inspecionados têm as seguintes características:

Inversor CC/CA, 2 MPPT,
Modelo: BSL-SUNUNO TL 5K – SAJ
Fabricante: BSL-SUNUNO
Potência: 5kW

- Foi comprovado o recebimento em todas nas filiais da SPE BRASIL SOLAIR de João Pessoa, de Teresina e de São Gonçalo, de um total de 50.176 painéis fotovoltaicos que totalizam uma capacidade de geração de 12.042.240W ou 12.042kW;

Foi comprovado o recebimento na filial de Teresina da SPE BRASIL SOLAIR de um total de 640 inversores CC/CA, que totalizam uma capacidade de 3.200.000W ou 3.200kW;

- Foi comprovado que a SPE BRASIL SOLAIR está de posse dos painéis fotovoltaicos e dos inversores CC/CA, e os mesmos estão devidamente identificados e adequadamente armazenados;

Rio de Janeiro, 18 de junho de 2015


André Couceiro Godinho
Engenheiro Mecânico

André Couceiro Godinho
Engenheiro Mecânico
CREA-RJ 134209/D

Ataulpho Coutinho, 200 BL1 803
Rio de Janeiro – RJ
CEP: 22793-520

Telefone: (21) 98020-5872
andregod1968@gmail.com

Parte 2



6. Anexos

6.1. Lista com os números de série dos equipamentos dentro da caixa e da identificação do paleta -
Filial João Pessoa – Seleção aleatória;

Pallet No.:		POWER B	
* 2 4 1 2 0 6 1 0 0 0 8 - 2 0 - 1 1 *			
1	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 2 6 *	14	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 5 3 *
2	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 2 7 *	15	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 9 7 *
3	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 6 1 *	16	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 9 7 *
4	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 6 9 *	17	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 9 7 *
5	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 6 8 *	18	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 7 0 1 *
6	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 6 5 *	19	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 9 2 *
7	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 6 7 *	20	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 5 4 *
8	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 6 6 6 *	21	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 8 7 *
9	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 5 9 0 *	22	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 9 6 3 *
10	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 5 3 *	23	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 3 7 *
11	* 1 1 4 0 3 7 5 0 2 4 1 1 0 1 9 5 4 *	24	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 9 5 1 *
12	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 9 5 8 *	25	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 9 6 4 *
13	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 9 5 7 *	26	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 9 6 1 *

Foto 6.1.1



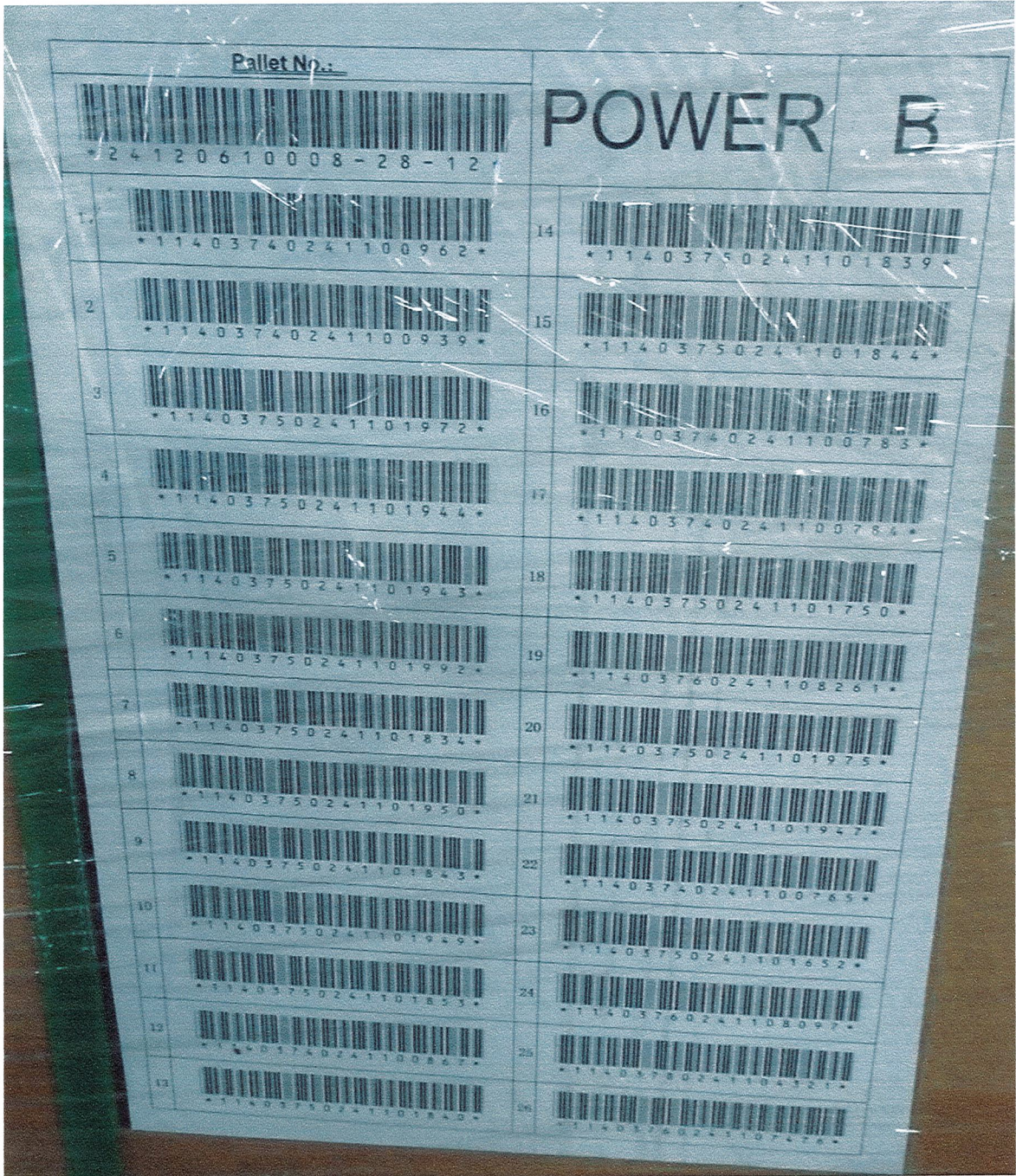


Foto 6.1.2





Foto 6.1.3

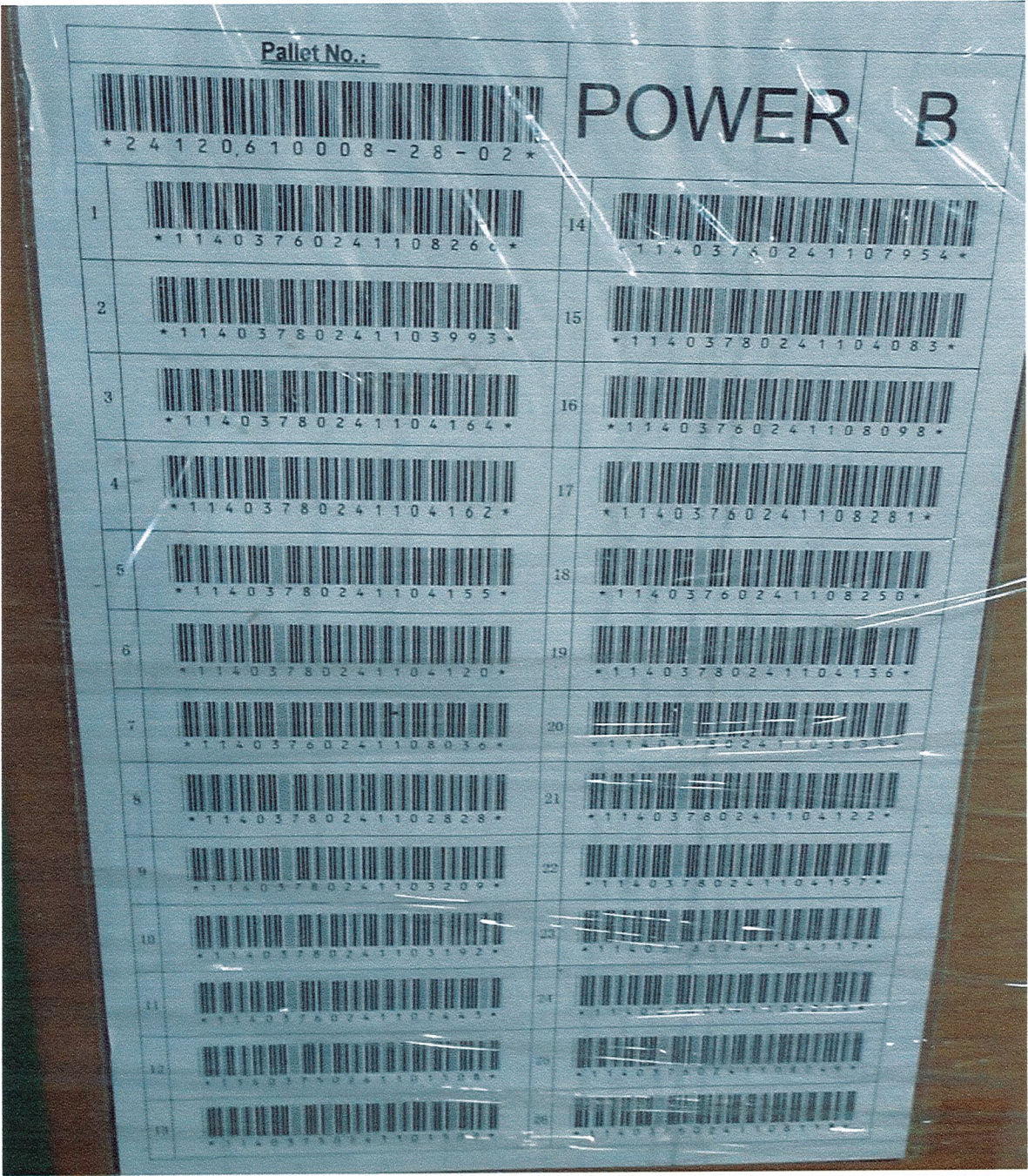


Foto 6.1.4



Foto 6.1.5

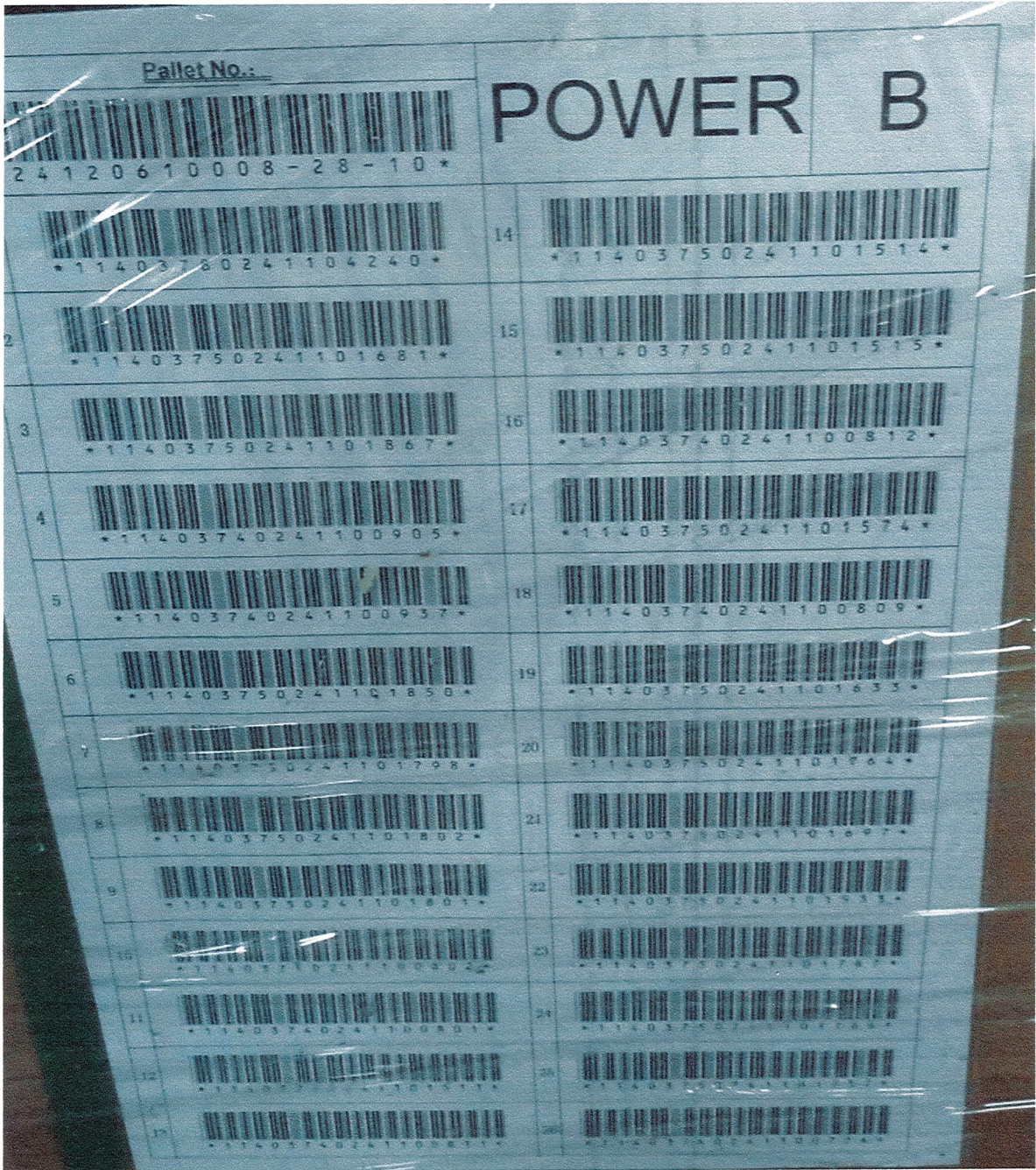


Foto 6.1.6

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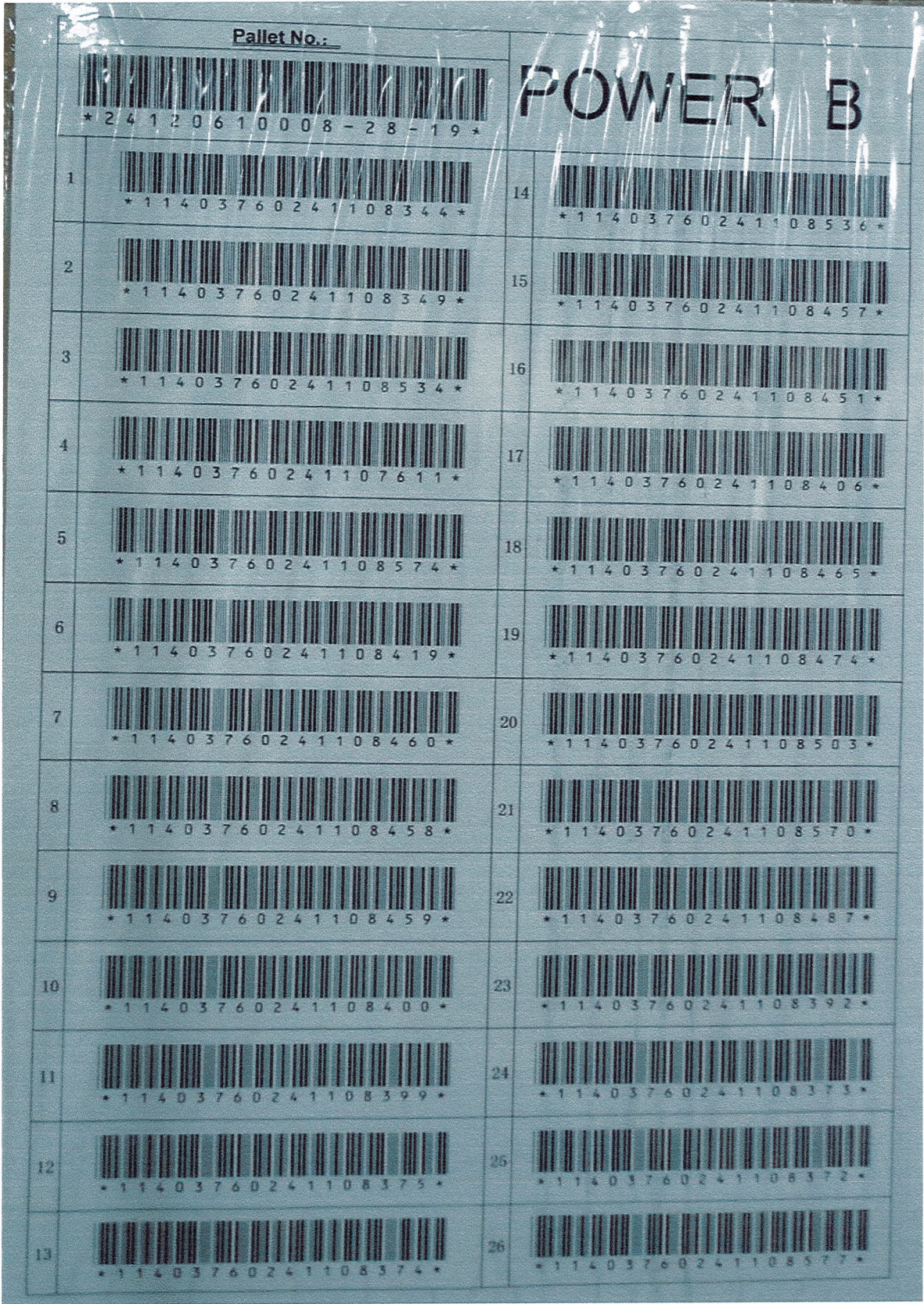


Foto 6.1.7



Foto 6.1.8



Pallet No.:		POWER B	
 * 2 4 1 2 0 6 1 0 0 0 8 - 2 8 - 2 1 *			
1	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 5 8 0 *	14	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 1 1 0 0 *
2	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 3 3 *	15	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 0 7 *
3	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 3 3 3 4 *	16	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 0 8 *
4	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 3 0 *	17	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 0 9 *
5	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 2 8 *	18	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 4 3 8 *
6	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 2 9 *	19	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 1 5 *
7	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 0 0 *	20	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 2 0 *
8	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 0 9 9 *	21	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 1 6 *
9	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 5 9 *	22	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 2 2 *
10	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 0 9 3 *	23	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 3 2 1 *
11	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 6 2 *	24	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 4 4 8 *
12	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 6 4 *	25	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 4 4 7 *
13	 * 1 1 4 0 3 7 6 0 2 4 1 2 0 0 1 0 5 *	26	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 8 4 4 5 *

Foto 6.1.9





Foto 6.1.10

6. Anexos

6.2. Lista com os números de série dos equipamentos dentro da caixa e da identificação do pallet - Filial Teresina – Seleção aleatória de painéis e inversores;



Foto 6.2.1



Foto 6.2.2



Foto 6.2.3



Foto 6.2.4



Foto 6.2.5

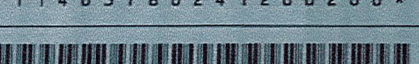
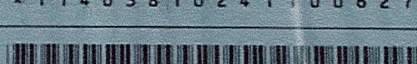
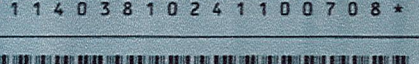
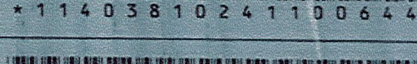
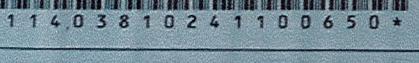
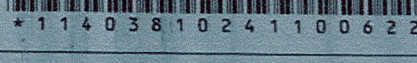
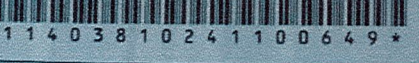
Pallet No.:		POWER C	
 * 2 4 1 2 0 6 1 0 0 1 3 - 2 8 - 0 3 *			
1	 * 1 1 4 5 2 7 8 0 2 4 1 1 0 0 2 0 1 *	14	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 5 4 0 *
2	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 5 1 0 4 *	15	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 5 7 0 *
3	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 2 8 *	16	 * 1 1 4 0 3 7 8 0 2 4 1 2 0 0 1 5 8 *
4	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 3 7 *	17	 * 1 1 4 0 3 7 8 0 2 4 1 2 0 0 1 5 7 *
5	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 0 7 *	18	 * 1 1 4 0 3 7 8 0 2 4 1 2 0 0 2 0 5 *
6	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 4 8 *	19	 * 1 1 4 0 3 7 8 0 2 4 1 2 0 0 2 0 6 *
7	 * 1 1 4 0 3 7 8 0 2 4 1 2 0 0 1 9 9 *	20	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 2 6 *
8	 * 1 1 4 0 3 7 8 0 2 4 1 2 0 0 2 0 0 *	21	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 2 7 *
9	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 0 8 *	22	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 4 4 *
10	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 5 0 *	23	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 2 2 *
11	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 4 9 *	24	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 4 2 *
12	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 0 9 *	25	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 5 4 1 *
13	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 1 0 *	26	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 3 0 *

Foto 6.2.6



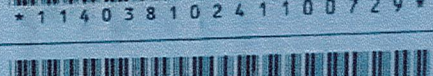
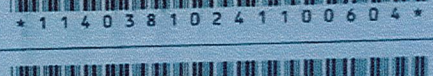
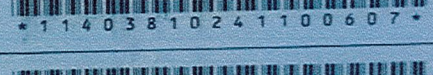
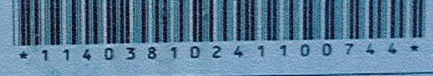
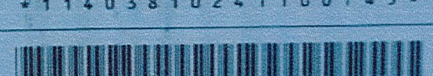
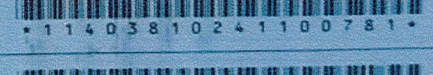
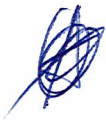
Pallet No.:		POWER		C
 * 2 4 1 2 0 6 1 0 0 1 3 - 2 8 - 0 4 *				
1	 * 1 1 4 0 3 8 0 0 2 4 1 1 0 0 5 5 8 *	14	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 0 5 *	
2	 * 1 1 4 0 3 8 0 0 2 4 1 1 0 0 5 5 7 *	15	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 3 0 *	
3	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 1 8 *	16	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 0 6 *	
4	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 5 4 *	17	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 2 9 *	
5	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 5 3 *	18	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 0 4 *	
6	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 7 4 *	19	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 0 7 *	
7	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 5 5 0 *	20	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 4 4 *	
8	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 5 5 1 *	21	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 4 5 *	
9	 * 1 1 4 0 3 8 0 0 2 4 1 1 0 0 5 0 0 *	22	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 8 1 *	
10	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 1 7 *	23	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 6 7 *	
11	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 7 2 5 *	24	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 7 5 *	
12	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 0 1 *	25	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 7 6 *	
13	 * 1 1 4 0 3 8 0 0 2 4 1 1 0 0 5 3 7 *	26	 * 1 1 4 0 3 8 1 0 2 4 1 1 0 0 6 5 5 *	

Foto 6.2.7



6. Anexos

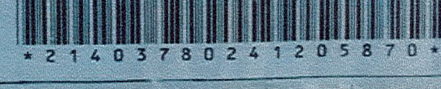
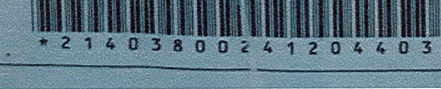
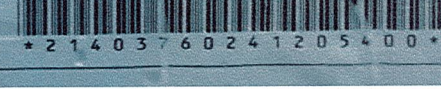
Pallet NO.:		POWER C	
 * 2 4 1 2 0 6 2 0 0 0 3 - 2 8 - 0 5 *			
1	 * 2 1 4 0 3 7 8 0 2 4 1 2 0 4 9 0 1 *	14	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 4 3 *
2	 * 2 1 4 0 3 7 8 0 2 4 1 2 0 4 9 0 0 *	15	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 6 3 5 *
3	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 5 0 6 *	16	 * 2 1 4 0 3 7 8 0 2 4 1 2 0 5 4 2 0 *
4	 * 2 1 4 0 3 7 6 0 2 4 1 2 0 5 3 9 1 *	17	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 4 0 0 *
5	 * 2 1 4 0 3 7 6 0 2 4 1 2 0 5 3 9 9 *	18	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 8 0 *
6	 * 2 1 4 0 3 7 6 0 2 4 1 2 0 5 3 9 7 *	19	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 5 7 7 9 *
7	 * 2 1 4 0 3 7 6 0 2 4 1 2 0 5 3 9 8 *	20	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 9 5 *
8	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 1 3 3 5 *	21	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 5 7 8 0 *
9	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 8 1 *	22	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 9 4 *
10	 * 2 1 4 0 3 7 8 0 2 4 1 2 0 5 5 3 6 *	23	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 7 8 *
11	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 7 7 *	24	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 3 9 9 *
12	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 4 3 4 *	25	 * 2 1 4 0 3 7 8 0 2 4 1 2 0 5 8 7 0 *
13	 * 2 1 4 0 3 8 0 0 2 4 1 2 0 4 4 0 3 *	26	 * 2 1 4 0 3 7 6 0 2 4 1 2 0 5 4 0 0 *

Foto 6.2.8





Foto 6.2.9



Foto 6.2.10



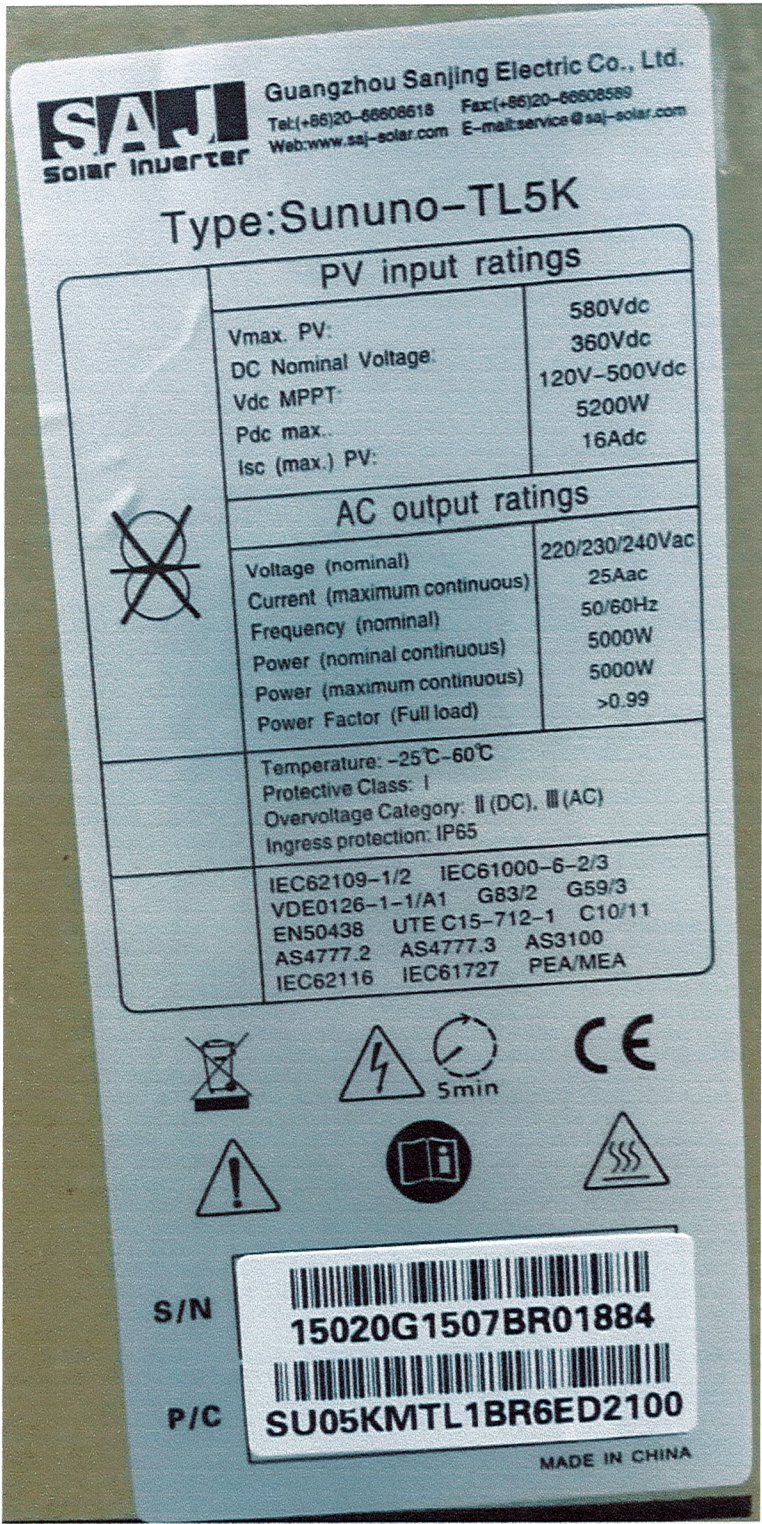


Foto 6.2.11



Guangzhou Sanjing Electric Co., Ltd.

Tel: (+86)20-66608618 Fax: (+86)20-66608589

Web: www.saj-solar.com E-mail: service@saj-solar.com

Type: Sununo-TL5K

	PV input ratings	
	Vmax. PV:	580Vdc
	DC Nominal Voltage:	360Vdc
	Vdc MPPT:	120V-500Vdc
	Pdc max..	5200W
	Isc (max.) PV:	16Adc
	AC output ratings	
	Voltage (nominal)	220/230/240Vac
	Current (maximum continuous)	25Aac
	Frequency (nominal)	50/60Hz
Power (nominal continuous)	5000W	
Power (maximum continuous)	5000W	
Power Factor (Full load)	>0.99	
Temperature: -25℃-60℃		
Protective Class: I		
Overvoltage Category: II (DC), III (AC)		
Ingress protection: IP65		
IEC62109-1/2 IEC61000-6-2/3		
VDE0126-1-1/A1 G83/2 G59/3		
EN50438 UTE C15-712-1 C10/11		
AS4777.2 AS4777.3 AS3100		
IEC62116 IEC61727 PEA/MEA		















S/N


15020G1506BR01545

P/C


SU05KMTL1BR6ED2100

MADE IN CHINA

Foto 6.2.12





Guangzhou Sanjing Electric Co., Ltd.

Tel:(+86)20-66608618 Fax:(+86)20-66608589

Web:www.saj-solar.com E-mail:service@saj-solar.com

Type:Sununo-TL5K

	PV input ratings	
	Vmax. PV:	580Vdc
	DC Nominal Voltage:	360Vdc
	Vdc MPPT:	120V-500Vdc
	Pdc max..	5200W
	Isc (max.) PV:	16Adc
	AC output ratings	
	Voltage (nominal)	220/230/240Vac
	Current (maximum continuous)	25Aac
	Frequency (nominal)	50/60Hz
Power (nominal continuous)	5000W	
Power (maximum continuous)	5000W	
Power Factor (Full load)	>0.99	
Temperature: -25℃-60℃		
Protective Class: I		
Overvoltage Category: II (DC), III (AC)		
Ingress protection: IP65		
IEC62109-1/2 IEC61000-6-2/3		
VDE0126-1-1/A1 G83/2 G59/3		
EN50438 UTE C15-712-1 C10/11		
AS4777.2 AS4777.3 AS3100		
IEC62116 IEC61727 PEA/MEA		















S/N

P/C



15020G1506BR01550



SU05KMTL1BR6ED2100

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Guangzhou Sanjing Electric Co., Ltd.
Tel:(+86)20-66608618 Fax:(+86)20-66608589
Web:www.saj-solar.com E-mail:service@saj-solar.com

Type:Sununo-TL5K

	PV input ratings	
	Vmax. PV:	580Vdc
	DC Nominal Voltage:	360Vdc
	Vdc MPPT:	120V-500Vdc
	Pdc max..	5200W
	Isc (max.) PV:	16Adc
	AC output ratings	
	Voltage (nominal)	220/230/240Vac
	Current (maximum continuous)	25Aac
	Frequency (nominal)	50/60Hz
Power (nominal continuous)	5000W	
Power (maximum continuous)	5000W	
Power Factor (Full load)	>0.99	
Temperature: -25℃-60℃ Protective Class: I Overvoltage Category: II (DC), III (AC) Ingress protection: IP65		
IEC62109-1/2 IEC61000-6-2/3 VDE0126-1-1/A1 G83/2 G59/3 EN50438 UTE C15-712-1 C10/11 AS4777.2 AS4777.3 AS3100 IEC62116 IEC61727 PEA/MEA		















S/N


15020G1506BR01343

P/C


SU05KMTL1BR6ED2100

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Foto 6.2.14





Foto 6.2.15

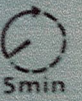




Guangzhou Sanjing Electric Co., Ltd.
Tel: (+86)20-86608618 Fax: (+86)20-86608589
Web: www.saj-solar.com E-mail: service@saj-solar.com

Type: Sununo-TL5K

	PV input ratings	
	Vmax. PV:	580Vdc
	DC Nominal Voltage:	360Vdc
	Vdc MPPT:	120V-500Vdc
	Pdc max.	5200W
	Isc (max.) PV:	16Adc
	AC output ratings	
	Voltage (nominal)	220/230/240Vac
	Current (maximum continuous)	25Aac
	Frequency (nominal)	50/60Hz
Power (nominal continuous)	5000W	
Power (maximum continuous)	5000W	
Power Factor (Full load)	>0.99	
Temperature: -25℃-60℃ Protective Class: I Overvoltage Category: II (DC), III (AC) Ingress protection: IP65		
IEC62109-1/2 IEC61000-6-2/3 VDE0126-1-1/A1 G83/2 G59/3 EN50438 UTE C15-712-1 C10/11 AS4777.2 AS4777.3 AS3100 IEC62116 IEC61727 PEA/MEA		





S/N


15020G1507BR01757

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Guangzhou Sanjing Electric Co., Ltd.
Tel:(+86)20-66608618 Fax:(+86)20-66608589
Web:www.saj-solar.com E-mail:service@saj-solar.com

Type:Sununo-TL5K

	PV input ratings	
	Vmax. PV:	580Vdc
	DC Nominal Voltage:	360Vdc
	Vdc MPPT:	120V-500Vdc
	Pdc max..	5200W
	Isc (max.) PV:	16Adc
AC output ratings		
	Voltage (nominal)	220/230/240Vac
	Current (maximum continuous)	25Aac
	Frequency (nominal)	50/60Hz
	Power (nominal continuous)	5000W
	Power (maximum continuous)	5000W
	Power Factor (Full load)	>0.99
Temperature: -25℃-60℃ Protective Class: I Overvoltage Category: II (DC), III (AC) Ingress protection: IP65		
IEC62109-1/2 IEC61000-6-2/3 VDE0126-1-1/A1 G83/2 G59/3 EN50438 UTE C15-712-1 C10/11 AS4777.2 AS4777.3 AS3100 IEC62116 IEC61727 PEA/MEA		





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15020G1506BR01265

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Guangzhou Sanjing Electric Co., Ltd.

Tel: (+86)20-66608618 Fax: (+86)20-66608589

Web: www.saj-solar.com E-mail: service@saj-solar.com

Type: Sununo-TL5K

PV input ratings	
Vmax. PV:	580Vdc
DC Nominal Voltage:	360Vdc
Vdc MPPT:	120V-500Vdc
Pdc max.	5200W
Isc (max.) PV:	16Adc



AC output ratings	
Voltage (nominal)	220/230/240Vac
Current (maximum continuous)	25Aac
Frequency (nominal)	50/60Hz
Power (nominal continuous)	5000W
Power (maximum continuous)	5000W
Power Factor (Full load)	>0.99

Temperature: -25°C-60°C	
Protective Class: I	
Overvoltage Category: II (DC), III (AC)	
Ingress protection: IP65	

IEC62109-1/2	IEC61000-6-2/3
VDE0126-1-1/A1	G83/2 G59/3
EN50438	UTE C15-712-1 C10/11
AS4777.2	AS4777.3 AS3100
IEC62116	IEC61727 PEA/MEA















S/N


15020G1506BR01676

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Foto 6.2.18





Guangzhou Sanjing Electric Co., Ltd.
Tel: (+86)20-86608618 Fax: (+86)20-86608588
Web: www.saj-solar.com E-mail: service@saj-solar.com

Type: Sununo-TL5K

	PV input ratings	
	Vmax. PV:	580Vdc
	DC Nominal Voltage:	360Vdc
	Vdc MPPT:	120V-500Vdc
	Pdc max.:	5200W
	Isc (max.) PV:	16Adc
	AC output ratings	
	Voltage (nominal):	220/230/240Vac
	Current (maximum continuous):	25Aac
	Frequency (nominal):	50/60Hz
	Power (nominal continuous):	5000W
	Power (maximum continuous):	5000W
Power Factor (Full load):	>0.99	
Temperature: -25°C-60°C		
Protective Class: I		
Overvoltage Category: II (DC), III (AC)		
Ingress protection: IP65		
IEC62109-1/2 IEC61000-6-2/3 VDE0126-1-1/A1 G83/2 G59/3 EN50438 UTE C15-712-1 C10/11 AS4777.2 AS4777.3 AS3100 IEC62116 IEC61727 PEA/MEA		















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Foto 6.2.19





Guangzhou Sanjing Electric Co., Ltd.
Tel: (+86)20-66608618 Fax: (+86)20-66608589
Web: www.saj-solar.com E-mail: service@saj-solar.com

Type: Sununo-TL5K

PV input ratings	
Vmax. PV:	580Vdc
DC Nominal Voltage:	360Vdc
Vdc MPPT:	120V-500Vdc
Pdc max.:	5200W
Isc (max.) PV:	16Adc



AC output ratings	
Voltage (nominal)	220/230/240Vac
Current (maximum continuous)	25Aac
Frequency (nominal)	50/60Hz
Power (nominal continuous)	5000W
Power (maximum continuous)	5000W
Power Factor (Full load)	>0.99

Temperature: -25℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65

IEC62109-1/2 IEC61000-6-2/3
VDE0126-1-1/A1 GB3/2 G59/3
EN50438 UTE C15-712-1 C10/11
AS4777.2 AS4777.3 AS3100
IEC62116 IEC61727 PEA/MEA





S/N

P/C


15020G1507BR01798


SU05KMTL1BR6ED2100

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Foto 6.2.20



6. Anexos

6.3. Lista com os números de série dos equipamentos dentro da caixa e da identificação do palete - Filial São Gonçalo – Seleção aleatória;

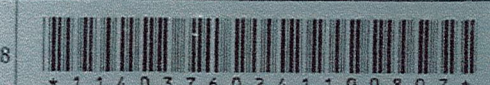
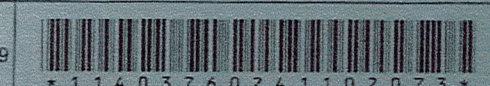
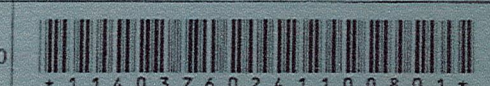
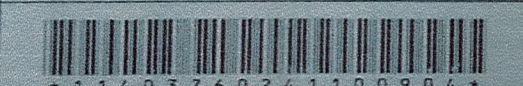
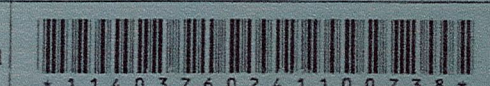
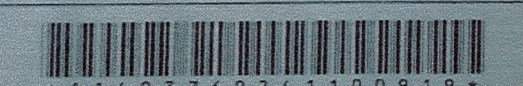
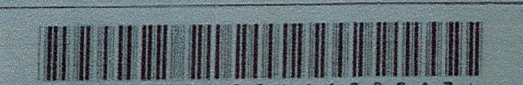
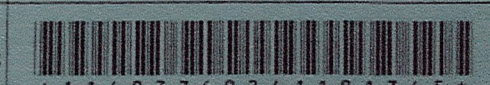
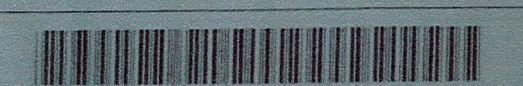
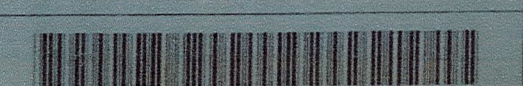
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 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 4 9 6 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 8 2 4 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 5 8 5 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 8 2 6 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 5 8 3 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 8 2 7 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 5 8 2 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 8 0 7 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 3 9 5 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 2 0 7 3 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 6 7 4 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 8 0 1 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 9 0 4 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 7 3 8 *
 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 9 1 9 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 7 3 9 *
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 * 1 1 4 0 3 7 6 0 2 4 1 1 0 0 9 1 8 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 1 2 3 9 *
 * 1 1 4 0 3 7 8 0 2 4 1 1 0 0 6 3 9 *	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 1 2 4 0 *
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Foto 6.3.1



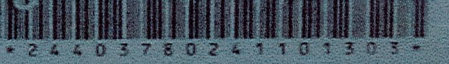
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* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 4 0 8 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 9 8 1 *	
3		16	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 4 0 9 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 9 9 5 *	
4		17	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 2 9 5 *		* 2 4 4 0 3 7 8 0 2 4 1 1 1 1 3 6 1 *	
5		18	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 4 2 7 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 9 9 4 *	
6		19	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 4 2 8 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 6 7 5 *	
7		20	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 1 7 6 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 6 6 3 *	
8		21	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 3 9 2 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 1 3 7 4 *	
9		22	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 4 2 9 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 6 8 7 *	
10		23	
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11		24	
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12		25	
* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 2 9 3 *		* 2 4 4 0 3 7 8 0 2 4 1 1 0 0 9 0 2 *	
13		26	
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Foto 6.3.2





Foto 6.3.3



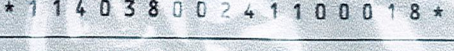
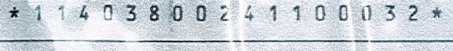
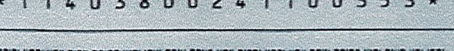
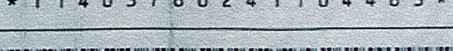
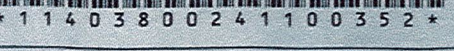
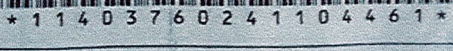
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2		15	
* 1 1 4 0 3 7 6 0 2 4 1 1 0 4 4 3 9 *		* 1 1 4 0 3 8 0 0 2 4 1 1 0 0 1 0 9 *	
3		16	
* 1 1 4 0 3 8 0 0 2 4 1 1 0 0 0 3 6 *		* 1 1 4 0 3 8 0 0 2 4 1 1 0 0 1 1 0 *	
4		17	
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5		18	
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7		20	
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9		22	
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10		23	
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11		24	
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12		25	
* 1 1 4 0 3 7 6 0 2 4 1 1 0 4 4 6 5 *		* 1 1 4 0 3 7 8 0 2 4 1 1 0 1 6 2 0 *	
13		26	
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Foto6.3.4





Foto 6.3.5

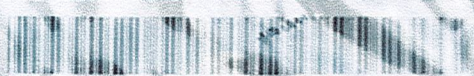
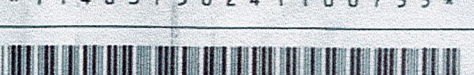
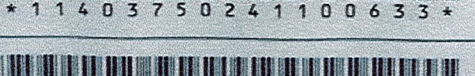
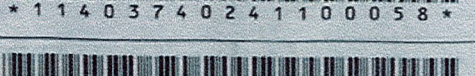
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3		16	
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5		18	
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6		19	
	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 2 1 *		* 1 1 4 0 3 7 6 0 2 4 1 1 0 3 3 7 4 *
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8		21	
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9		22	
	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 6 7 9 *		* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 5 4 *
10		23	
	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 8 8 *		* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 5 2 *
11		24	
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12		25	
	* 1 1 4 0 3 7 4 0 2 4 1 1 0 0 0 5 8 *		* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 6 2 3 *
13		26	
	* 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 9 1 *		* 1 1 4 0 3 7 4 0 2 4 1 1 0 0 0 7 2 *

Foto 6.3.6





Foto 6.3.7



Foto 6.3.8



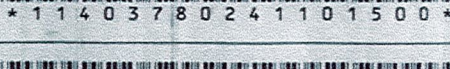
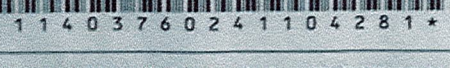
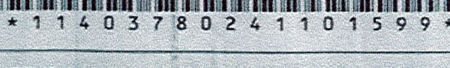
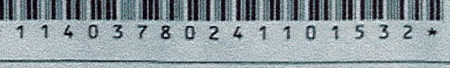
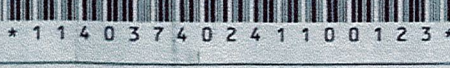
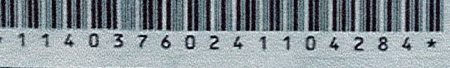
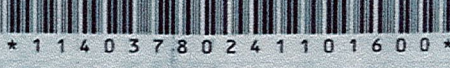
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2	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 4 6 *	15	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 6 5 9 *
3	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 4 4 *	16	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 4 5 *
4	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 4 7 *	17	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 4 2 6 8 *
5	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 7 3 4 *	18	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 4 2 6 7 *
6	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 5 4 2 *	19	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 5 5 8 *
7	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 4 4 *	20	 * 1 1 4 0 3 7 4 0 2 4 1 1 0 0 1 6 9 *
8	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 5 0 *	21	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 3 7 *
9	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 1 5 *	22	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 5 0 0 *
10	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 4 2 8 1 *	23	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 5 9 9 *
11	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 5 3 2 *	24	 * 1 1 4 0 3 7 4 0 2 4 1 1 0 0 1 2 3 *
12	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 4 2 8 4 *	25	 * 1 1 4 0 3 7 8 0 2 4 1 1 0 1 6 0 0 *
13	 * 1 1 4 0 3 7 6 0 2 4 1 1 0 4 3 2 8 *	26	 * 1 1 4 0 3 7 5 0 2 4 1 1 0 0 8 3 9 *

Foto 6.3.9





Foto 6.3.10